

## Mouse anti-Human HLA-A Monoclonal Antibody | anti-HLA-A antibody

HLA-A (MHC I) Mouse Monoclonal Antibody

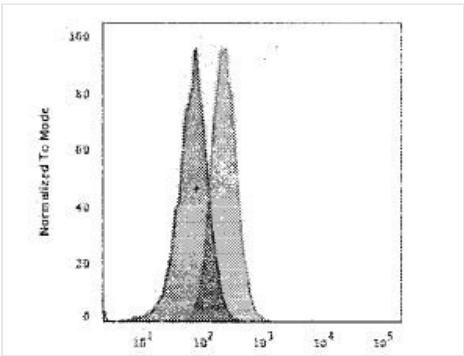
|                              |                      |                            |                                                                             |
|------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------|
| CATALOG #<br><b>AAA13821</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay, Immunofluorescence</b> |
|------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------|

### PRODUCT SYNONYMS

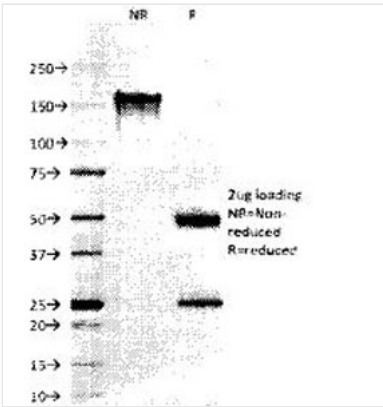
HLA-A; Monoclonal Antibody; HLA-A (MHC I) Mouse Monoclonal Antibody; HLA class 1A; MHC class I HLA-A; anti-HLA-A antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype                                         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                    | 108-2C5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                     | HLA-A, with HLA-B and HLA-C, belongs to major histocompatibility complex (MHC) class I antigens and expresses constitutively on all nucleated cells. MHC class I antigens play a role in class I MHC-associated antigen presentation, inhibition of NK cell cytotoxicity, tumor surveillance, and tissue allotransplantation. This MAb is useful for HLA molecular typing of peripheral blood leukocytes as well as a large number of leukemic cell lines. It reacts with an intralocus determinant present on a limited number of HLA-A locus-encoded gene products (HLA-A2, -A3, -A28, -A29, -A30, -A31 and -Aw33). Its epitope maps between aa65-to-aa80 of the alpha1 domain of the HLA-A. This MAb recognizes an intralocus determinant present on a limited number of HLA-A locus-encoded gene products (HLA-A2, -A3, A28, -A29, -A30, -A31 and -Aw33). Furthermore, by testing its reactivity with HLA-A2 natural variants and mutants, the importance of amino acid residues 79 and/or 80 of the alpha1 domain was demonstrated in the formation of an intralocus HLA-A determinant. |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                 | 362                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-HLA-A antibody | FCM/FACS (Flow Cytometry), IF (Immunofluorescence)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Application Notes                               | Flow Cytometry (1-2 ug/million cells)<br>Immunofluorescence (1-2 ug/ml)<br>Optimal dilution for a specific application should be determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cellular Localization                           | Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen                                       | Normal human peripheral blood lymphocytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hu-Chromosome Location                          | 6q21.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Positive Control                                | Raji, THP-1 and Jurkat cells. Tonsil or lymph node.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                         | Antibody with azide - store at 2°C to 8°C.<br>Non-hazardous.<br>No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



FCM (Flow Cytometry)  
Flow Cytometric Analysis of Human Raji Cells. using HLA-Mouse Monoclonal Antibody followed by Goat anti-mouse IgG (Blue); Isotype control (Red).



Application Data  
SDS-PAGE AnalysisPurified HLA-A Mouse Monoclonal Antibody (108-2C5)

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Domenech N et al. Hum Immunol 1991, 30(2):140-6 Lozano F et al. Immunogenetics 1989, 30::50-3 Lozano F et al. Tissue Antigens 1990, 35:193-5 Young NT et al. Hum Immunol 1997, 52(1):1-11 Krensky AM et al Transplant Proc 1996, 28(6):3026-8 Hansen JA et al Hematol Oncol Clin North Am 1990, 4(3):507-515 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 17986001                                                                                                                                                                                             |
| NCBI GeneID                      | 3106                                                                                                                                                                                                 |
| NCBI Accession #                 | NP_005505.2                                                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_005514.7                                                                                                                                                                                          |
| UniProt Accession #              | P01889; Q29638; Q29681; Q29854; Q29861; Q31613; Q5SRJ2; Q9GIX1; Q9TP95; P18463; P10319; P18464; P18465; P30460; P30461; P30462; P30466; P30685; P30475                                               |
| Molecular Weight                 | ~41kDa                                                                                                                                                                                               |
| NCBI Official Full Name          | major histocompatibility complex, class I, B                                                                                                                                                         |
| NCBI Official Synonym Full Names | major histocompatibility complex, class I, B                                                                                                                                                         |
| NCBI Official Symbol             | HLA-B                                                                                                                                                                                                |
| NCBI Official Synonym Symbols    | AS; HLAB; Bw-47; Bw-50; SPDA1; B-4901; B-5001; HLA-Cw; HLA-B15; HLA-B39; HLA-B49; HLA-B50; HLA-B55; HLA-B59; HLA-B61; HEL-S-83; HLA-DRB1; HLA-B*45ZJ; HLA-B-3506; HLA-B-3905; HLA-B-5502; HLA-B-5602 |
| NCBI Protein Information         | major histocompatibility complex, class I, B                                                                                                                                                         |
| UniProt Protein Name             | HLA class I histocompatibility antigen, B-7 alpha chain                                                                                                                                              |
| UniProt Gene Name                | HLA-B                                                                                                                                                                                                |
| UniProt Synonym Gene Names       | HLAB                                                                                                                                                                                                 |
| UniProt Entry Name               | 1B07_HUMAN                                                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.