

## Rabbit anti-Mouse CD8 alpha Polyclonal Antibody | anti-CD8A antibody

Anti-CD8 alpha Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                         |
|-----------|--------|------------|----------------------------------------------------------------------|
| AAA257146 | Rabbit | Mouse      | Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA |

### PRODUCT SYNONYMS

CD8 alpha; Polyclonal Antibody; Anti-CD8 alpha Antibody; Rabbit Polyclonal; CD8/CD8 alpha/Leu-2 Antibody; Rabbit PAb; Antigen Affinity Purified; CD8a molecule; Anti-BB154331 Antibody; Anti-Ly-2 Antibody; Anti-Ly-35 Antibody; Anti-Ly-B Antibody; Anti-Lyt-2 Antibody; anti-CD8A antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Mouse                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Mouse CD8/CD8 alpha/Leu-2                                                                                                                                                                                                                                             |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                |
| Applicable Applications for anti-CD8A antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry-Paraffin), ELISA                                                                                                                                                                        |
| Application Notes                              | IHC-P IHC-P: 1:500-1:2000<br>ICC/IF ICC/IF: 1:300-1:10000<br>ELISA: 1:5000-1:10000<br>This antibody can be used at 1:5000-1:10000 with the appropriate secondary reagents to detect Mouse CD8/CD8 alpha/Leu-2.                                                        |
| Immunogen                                      | Recombinant Mouse CD8/CD8 alpha/Leu-2 Protein                                                                                                                                                                                                                         |
| Preparation                                    | Produced in rabbits immunized with purified, recombinant Mouse CD8/CD8 alpha/Leu-2 (rM CD8/CD8 alpha/Leu-2). CD8/CD8 alpha/Leu-2 specific IgG was purified by Mouse CD8/CD8 alpha/Leu-2 affinity chromatography.                                                      |
| Validated Application                          | Test Items Test Samples Test Result<br>Immunohistochemistry (IHC) Natural Samples Pass<br>Immunofluorescence (IF) Natural Samples Pass<br>ELISA Recombinant Protein Pass                                                                                              |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of mCD8A-His in Mouse Spleen cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-MOUSE mCD8A-His polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cell membrane.



IHC (Immunohistochemistry)

Immunochemical staining of mouse CD8A in mouse spleen with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD8A antibody | T-cell surface glycoprotein CD8 alpha chain, also known as CD8a, is a single-pass type I membrane protein. The CD8 glycoprotein is expressed by thymocytes, mature T cells and natural killer (NK) cells and has been implicated in the recognition of monomorphic determinants on major histocompatibility complex (MHC) Class I antigens, and in signal transduction during the course of T-cell activation. Both human and rodent CD8 antigens are comprised of two distinct polypeptide chains, alpha and beta. The Ig domains of CD8 alpha are involved in controlling the ability of CD8 to be expressed. Mutation of B-and F-strand cysteine residues in CD8 alpha reduced the ability of the protein to fold properly and, therefore, to be expressed. Defects in CD8A are a cause of familial CD8 deficiency. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections. |
| References                                         | References Devine, L. et al., 2000, J Immunol. 164 (2): 833-8. Arcaro, A. et al., 2000, J Immunol. 165 (4): 2068-76. Saha, K. et al., 2001, Nat Med. 7 (1): 65-72. Romero, P. et al., 2005, Eur J Immunol. 35 (11): 3092-4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI GI #                        | 124487437                                             |
| NCBI GeneID                      | 12525                                                 |
| NCBI Accession #                 | NP_001074579.1                                        |
| NCBI GenBank Nucleotide #        | NM_001081110.2                                        |
| UniProt Accession #              | P01731                                                |
| Molecular Weight                 | 27456 MW                                              |
| NCBI Official Full Name          | T-cell surface glycoprotein CD8 alpha chain isoform 1 |
| NCBI Official Synonym Full Names | CD8 antigen, alpha chain                              |
| NCBI Official Symbol             | Cd8a                                                  |
| NCBI Official Synonym Symbols    | Ly-2; Ly-B; Ly-35; Lyt-2; BB154331                    |
| NCBI Protein Information         | T-cell surface glycoprotein CD8 alpha chain           |
| UniProt Protein Name             | T-cell surface glycoprotein CD8 alpha chain           |
| UniProt Gene Name                | Cd8a                                                  |
| UniProt Synonym Gene Names       | Lyt-2; Lyt2                                           |

**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.