

## Rabbit anti-Human IgA (Immunoglobulin Alpha Heavy Chain) Monoclonal Antibody | anti-IGHA1 antibody

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Recombinant Rabbit Monoclonal Antibody [Clone IGHA/3877R]

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS         |
|-----------|--------|------------|----------------------|
| AAA215730 | Rabbit | Human      | Immunohistochemistry |

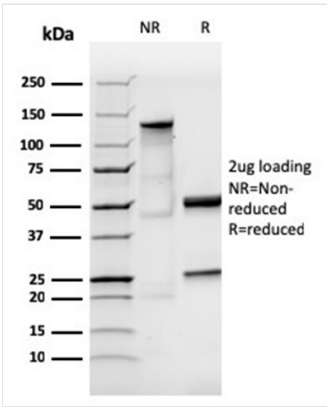
### PRODUCT SYNONYMS

IgA (Immunoglobulin Alpha Heavy Chain); Monoclonal Antibody; IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Recombinant Rabbit Monoclonal Antibody [Clone IGHA/3877R]; IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); A2m Marker; Ig alpha 1 Chain C Region; Ig alpha 2 Chain C Region; IGHA1; IGHA2; Immunoglobulin Am1; Immunoglobulin Am2; Immunoglobulin Heavy Constant Alpha 1; Immunoglobulin Heavy Constant Alpha 2; anti-IGHA1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                      |
| Reactivity                                      | Human                                                                                                                                                                       |
| Clonality                                       | Monoclonal                                                                                                                                                                  |
| Isotype                                         | Rabbit/IgG                                                                                                                                                                  |
| Clone Number                                    | IGHA/3877R                                                                                                                                                                  |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.      |
| Concentration                                   | Purified Ab with BSA and Azide at 200ug/ml<br>OR<br>Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)                                                           |
| Applicable Applications for anti-IGHA1 antibody | IHC (Immunohistochemistry)                                                                                                                                                  |
| Antibody Type                                   | Recombinant Antibody                                                                                                                                                        |
| Immunogen                                       | Recombinant full-length human IGHA1 and IGHA2 proteins                                                                                                                      |
| Cellular Localization                           | Cytoplasm, cell surface and secreted                                                                                                                                        |
| Positive Control                                | Daudi, 293T, Raji or hPBL cells. Human tonsil or spleen.                                                                                                                    |
| Hu-chromosome Location                          | 14q32.33                                                                                                                                                                    |
| Unigene                                         | 699841                                                                                                                                                                      |
| Preparation and Storage                         | Antibody with azide: store at 2 to 8 degree C<br>Antibody without azide: store at -20 to -80 degree C<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required. |

IMAGES



SDS-PAGE  
SDS-PAGE Analysis Purified IgA Recombinant Rabbit Monoclonal Antibody (IGHA/3877R).  
Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-IGHA1 antibody | This MAb is specific to heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with both IgA1 and IgA2 subclasses of Alpha heavy chain. It reacts with the third constant domain (CH3) of the alpha chain of IgA molecules. Immunoglobulins are four-chain, Y-shaped, monomeric structures comprised of two identical heavy chains and two identical light chains held together through inter-chain disulfide bonds. The chains form two domains, the Fab (antigen binding) fragment and the Fc (constant) fragment. Immunoglobulin A (IgA) is the main protein of the mucosal immune system. It is generated by B-cells in gut-associated lymphoid tissues. Daily production of IgA exceeds that of any of the other immunoglobulins. IgA exists mainly in dimers but can also exist as polymers or as monomers. Dimers and polymers contain a joining (J) chain that can be bound by the polymeric immunoglobulin receptor (pIgR) for transportation of the molecule to mucosal surfaces. The most common feature of plasmacytomas, and certain non-Hodgkin s lymphomas is the restricted expression of a single heavy chain class. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 113584                                |
| NCBI GeneID                      | 3493                                  |
| UniProt Accession #              | P01876; P01877 (IGHA2)                |
| Molecular Weight                 | 160,000                               |
| NCBI Official Full Name          | Ig alpha-1 chain C region             |
| NCBI Official Synonym Full Names | immunoglobulin heavy constant alpha 1 |
| NCBI Official Symbol             | IGHA1                                 |
| NCBI Official Synonym Symbols    | IgA1                                  |
| UniProt Protein Name             | Ig alpha-1 chain C region             |
| UniProt Gene Name                | IGHA1                                 |
| UniProt Entry Name               | IGHA1_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.