

Mouse anti-Human Immunoglobulin Alpha (IgA) Heavy Chain Antibody | anti-IgA antibody

Immunoglobulin Alpha (IgA) Heavy Chain

CATALOG # AAA215019	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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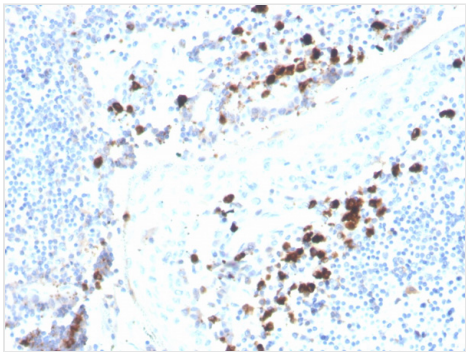
PRODUCT SYNONYMS

Immunoglobulin Alpha (IgA) Heavy Chain; 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-IgA antibody

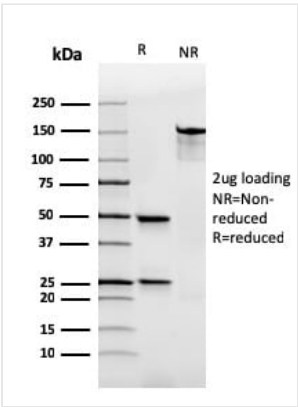
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	IgG1, kappa
Clone Number	rHISA43
Specificity	This MAb is specific to heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain. 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-Hodgkins 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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.
Sequence Length	353
Applicable Applications for anti-IgA antibody	IHC (Immunohistochemistry)
Positive Control	Daudi, 293T, Raji or hPBL cells. Human tonsil or spleen.
Immunogen	Recombinant full-length human IGHA1 and IGHA2 proteins
Cellular Localization	Cytoplasm, Cell Surface and Secreted
Hu-chromosome Location	14q32.33
Antibody Type	Recombinant Mouse Monoclonal Antibody
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human tonsil stained with IgA Recombinant Mouse Monoclonal Antibody (rHISA43).



SDS-PAGE
SDS-PAGE Analysis Purified IgA Recombinant Mouse Monoclonal Antibody (rHISA43).
Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Biewenga J. et al. Monoclonal antibodies against different domains of human IgA: Specificities determined by immunoblotting and haemagglutinationinhibition. Mol. Immunol. 23: 761 767 (1986).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	113584
NCBI GeneID	3493
UniProt Accession #	P01876; P01877
Molecular Weight	50-75kDa
NCBI Official Full Name	Immunoglobulin heavy constant alpha 1
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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/immunoglobulin-alpha-iga-heavy-chain/215019>