IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone HISA43]

Catalog No	Format	Size
3493-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3493-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3493-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

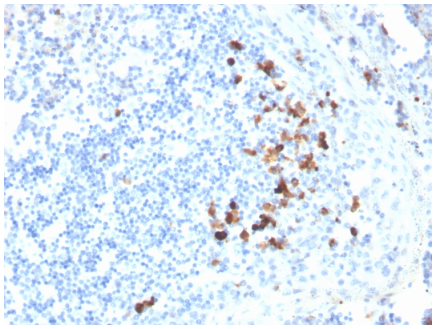
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

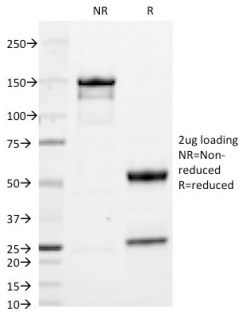
Clone	HISA43
Gene Name	IGHA1
Immunogen	Purified human IgA
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	50-75kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	293T, Daudi, Raji or hPBL cells. Tonsil or Spleen.

**Optimal dilution for a specific application should be determined.*

Product Images for IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody



Formalin-fixed, paraffin-embedded human tonsil stained with IgA Mouse Monoclonal Antibody (HISA43).



SDS-PAGE Analysis of Purified IgA Mouse Monoclonal Antibody (HISA43). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

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.

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.