

Product Datasheet

IgA Antibody (orb2638641)

Catalog Number	orb2638641
Category	Antibodies
Description	<p>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.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography

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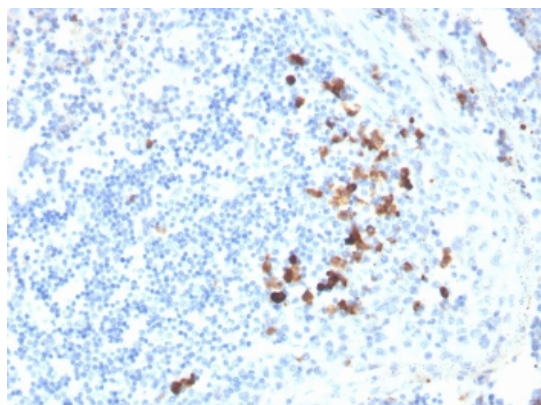
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Immunogen	Purified human IgA was used as the immunogen for the Anti-IgA antibody.
UniProt ID	P01876, P01877
Tested applications	FACS, IF, IHC-P
Dilution range	Flow cytometry: 1-2ug/10 ⁶ cells, Immunofluorescence: 1-2ug/ml 30 min RT, Immunohistochemistry (FFPE): 1-2ug/ml 30 min RT
Application notes	Optimal dilution of the Anti-IgA antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	HISA43
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human tonsil with Anti-IgA antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

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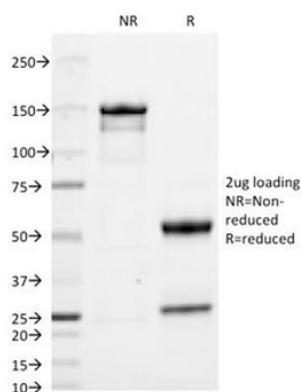
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SDS-PAGE analysis of purified, BSA-free Anti-IgA antibody (clone HISA43) as confirmation of integrity and purity.

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