

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone IA761 ]**  
**Catalog # AH11515****Specification****IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide**  
**- Product Information**

Application	,2,3,4,
Primary Accession	<a href="#">P01876</a>
Other Accession	<a href="#">3493 (IGHA1)</a> , <a href="#">3494 (IGHA2)</a> , <a href="#">699841</a> , <a href="#">P01877 (IGHA2)</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	50-75kDa KDa

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide**  
**- Additional Information****Other Names**

Ig alpha-1 chain C region, IGHAI

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

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**- Protein Information****Name** IGHAI {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.13}**Function**

Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed:<a href="http://www.uniprot.org/citations/22158414" target="\_blank">22158414</a>, PubMed:<a href="http://www.uniprot.org/citations/20176268" target="\_blank">20176268</a>). The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to

antigen and selection, allow affinity maturation for a particular antigen (PubMed:<a href="http://www.uniprot.org/citations/17576170" target="\_blank">17576170</a>, PubMed:<a href="http://www.uniprot.org/citations/20176268" target="\_blank">20176268</a>). Ig alpha is the major immunoglobulin class in body secretions (PubMed:<a href="http://www.uniprot.org/citations/2241915" target="\_blank">2241915</a>).

#### **Cellular Location**

[Isoform 1]: Secreted

### **IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide - Images**

### **IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker) Antibody - With BSA and Azide - Background**

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-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.