

Anti-IgA1/2 Antibody

Catalog # AP54087

Specification

Anti-IgA1/2 Antibody - Product Information

Application WB, IHC
Primary Accession P01876
Other Accession P01877
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 42849

Anti-IgA1/2 Antibody - Additional Information

Other Names

IGHA1; Ig alpha-1 chain C region; IGHA2; Ig alpha-2 chain C region

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IgA1. The exact sequence is proprietary.

Dilution

WB~~1/500 - 1/1000 IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-IgA1/2 Antibody - Protein Information

Name IGHA1 {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:20176268, PubMed:22158414). 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:17576170, PubMed:20176268). Ig alpha is the major immunoglobulin class in body secretions (PubMed:2241915/a>).

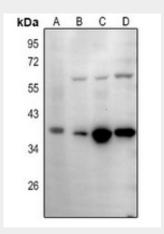
Cellular Location [Isoform 1]: Secreted

Anti-IgA1/2 Antibody - Protocols

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

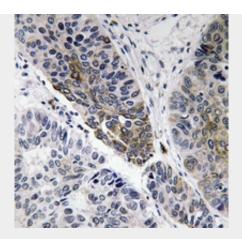
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IgA1/2 Antibody - Images



Western blot analysis of IgA1 expression in AML12 (A), SGC7901 (B), A549 (C), HepG2 (D) whole cell lysates.





Immunohistochemical analysis of IgA1 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-IgA1/2 Antibody - Background

Rabbit polyclonal antibody to IgA1