

IGHD (10G6) Rabbit Monoclonal Antibody IGHD (10G6) Rabbit Monoclonal Antibody Catalog # AP93701

Specification

IGHD (10G6) Rabbit Monoclonal Antibody - Product Information

Application WB, IHC
Primary Accession P01880
Reactivity Human
Clonality Monoclonal
Calculated MW 47500

IGHD (10G6) Rabbit Monoclonal Antibody - Additional Information

Other Names

Immunoglobulin heavy constant delta {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.15}, Ig delta chain C region, Ig delta chain C region NIG-65, Ig delta chain C region WAH, IGHD {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.15}

Dilution

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

Storage Conditions

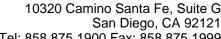
-20°C

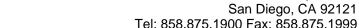
IGHD (10G6) Rabbit Monoclonal Antibody - Protein Information

Name IGHD {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.15}

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, PubMed:<a href="http://www.uniprot.org/citations/20176268"







the Src family of protein tyrosine kinases. Soluble IgD (slgD) concentration in serum below those of IgG, IgA, and IgM but much higher than that of IgE. IgM and IgD molecules present on B cells have identical V regions and antigen-binding sites. After the antigen binds to the B-cell receptor, the secreted form slgD is shut off. IgD is a potent inducer of TNF, IL1B, and IL1RN. IgD also induces release of IL6, IL10, and LIF from peripheral blood mononuclear cells. Monocytes seem to be the main producers of cytokines in vitro in the presence of IgD (PubMed: 10702483, PubMed:11282392, PubMed:8774350).

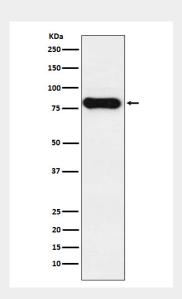
Cellular Location [Isoform 1]: Secreted

IGHD (10G6) Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IGHD (10G6) Rabbit Monoclonal Antibody - Images



Western blot analysis of IGHD expression in Humantonsil cell lysate.