10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody

Catalog # ABO13374

Specification

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P01861
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human.

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Additional Information

Other Names
Immunoglobulin heavy constant gamma 4 {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.6}, Ig gamma-4 chain C region, IGHG4 {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.6}

Calculated MW
35941 MW KDa

Application Details
WB 1:1000-1:2000
IHC 1:500-1:1000

Subcellular Localization
Secreted.

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human IgG4

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name IGHG4 {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.6}

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).

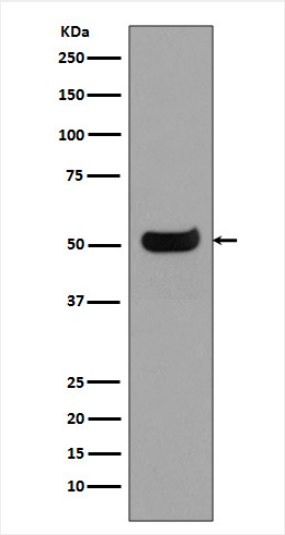
Cellular Location
[Isoform 1]: Secreted

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Protocols

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

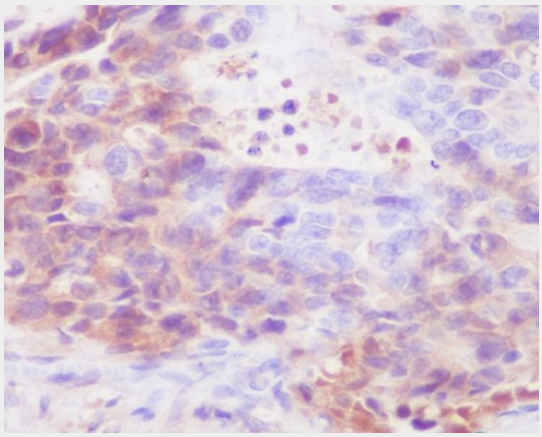
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Images



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Western blot analysis of human IgG4 expression in Human spleen lysate.



Immunohistochemical analysis of paraffin-embedded human stomach carcinoma, using human IgG4 Antibody.