

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

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

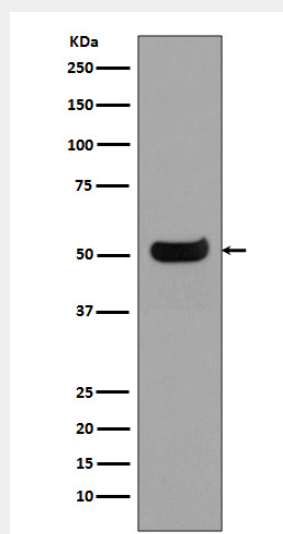
[Isoform 1]: Secreted

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Protocols

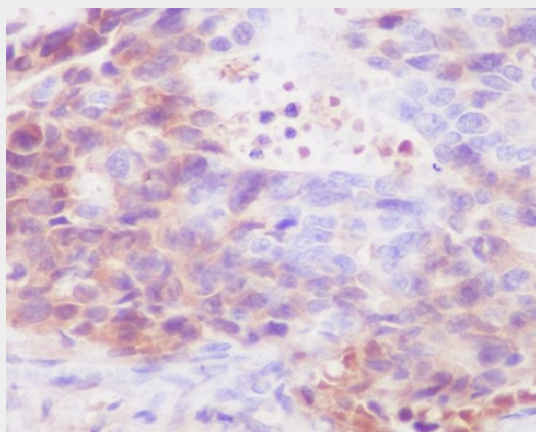
Provided below are standard protocols that you may find useful for product applications.

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

Anti-IgG4 IGHG4 Rabbit Monoclonal Antibody - Images



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



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