

Human IgG4 Antibody

Rabbit mAb

Catalog # AP90459

Product Information

Application	WB, IHC
Primary Accession	P01861
Reactivity	Human
Clonality	Monoclonal
Other Names	Ig gamma 4 chain C region; IGHG4; IGG4;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	43832

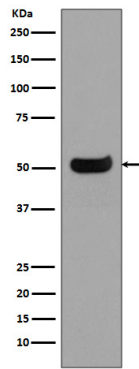
Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:500~1:1000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IgG4
Description	IgG4 antibodies will dominate the IgG response in schistosomiasis, lymphatic filariasis, and in patients after allergen immunotherapy. Unlike the other IgG subclasses, IgG4 does not activate complement. A combined IgA-IgG4 deficiency has been associated with recurrent pyogenic infections.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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).

Images



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

Image not found : 202311/AP90459-IHC.jpg

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.