

Human IgG2 Antibody

Rabbit mAb

Catalog # AP91891

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P01859
Reactivity	Human
Clonality	Monoclonal
Other Names	IGHG2; immunoglobulin Gm2; immunoglobulin heavy constant gamma 2 (G2m marker);
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	43806

Additional Information

Dilution	WB 1:1000~1:5000 IHC 1:100~1:500 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IgG2
Description	There are four IgG subclasses (IgG1, 2, 3 and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant). IgG2 is the only IgG subclass which passes through the placenta at a level generally lower than that found in the mother.
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

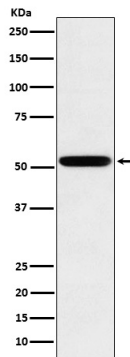
Name	IGHG2 {ECO:0000303 PubMed:11340299, ECO:0000303 Ref.14}
Function	Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins 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

Images



Western blot analysis of human IgG2 expression in Human spleen lysate.

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