

Human IgG1 Antibody

Rabbit mAb

Catalog # AP92707

Product Information

Application	WB
Primary Accession	P01857
Reactivity	Human
Clonality	Monoclonal
Other Names	Ig gamma 1 chain C region; IGHG1; Immunoglobulin Gm1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	43912

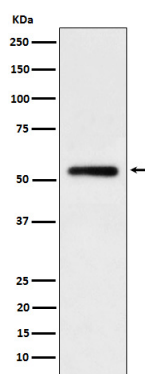
Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IgG1
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).
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	IGHG1 {ECO:0000303 PubMed:11340299, ECO:0000303 Ref.13}
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). Mediates IgG effector functions on monocytes triggering ADCC of virus-infected cells.

Images



Western blot analysis of human IgG1 expression in Human tonsil cell lysate.

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