

# 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;

IsotypeRabbit IgGHostRabbitCalculated MW43912

### **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.

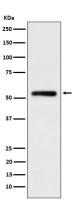
#### **Protein Information**

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-

## **Images**



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

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