

## **Human IgG1 Antibody**

Rabbit mAb Catalog # AP92707

#### **Specification**

## **Human IgG1 Antibody - Product Information**

Application WB
Primary Accession P01857
Clonality Monoclonal

**Other Names** 

Ig gamma 1 chain C region; IGHG1; Immunoglobulin Gm1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 36106 Da

#### **Human IgG1 Antibody - Additional Information**

Dilution WB~~1:1000

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

lgG1

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.

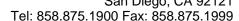
## **Human IgG1 Antibody - Protein Information**

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:<a href="http://www.uniprot.org/citations/20176268" target="\_blank">20176268</a>, PubMed:<a href="http://www.uniprot.org/citations/22158414" target="\_blank">22158414</a>). 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:<a href="http://www.uniprot.org/citations/17576170" target="\_blank">17576170</a>, PubMed:<a href="http://www.uniprot.org/citations/20176268" target="\_blank">20176268</a>). Mediates IgG effector functions on monocytes triggering ADCC of virus- infected cells.

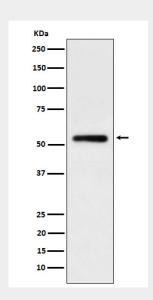
**Cellular Location** [Isoform 1]: Secreted

# **Human IgG1 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **Human IgG1 Antibody - Images**



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