

Human IgG2 Antibody
Rabbit mAb
Catalog # AP91891

Specification

Human IgG2 Antibody - Product Information

| | |
|--|------------------------|
| Application | WB, IHC, ICC |
| Primary Accession | P01859 |
| Clonality | Monoclonal |
| Other Names | |
| IGHG2; immunoglobulin Gm2; immunoglobulin heavy constant gamma 2 (G2m marker); | |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 35901 Da |

Human IgG2 Antibody - Additional Information

| | |
|------------------------------|--|
| Dilution | WB~~1:1000 IHC~~1:100~500 ICC~~N/A |
| 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. |

Human IgG2 Antibody - 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:<a

[22158414](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/17576170), PubMed:[20176268](http://www.uniprot.org/citations/20176268)).

Cellular Location

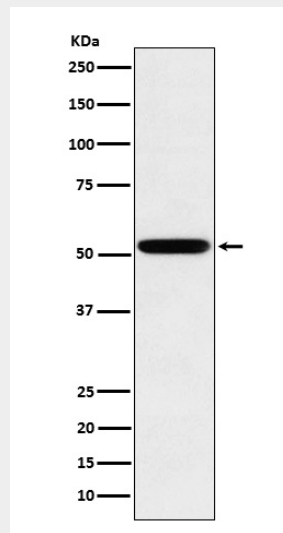
[Isoform 1]: Secreted

Human IgG2 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human IgG2 Antibody - Images



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