

IgG1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51279

Product Information

Application	WB, IHC-P
Primary Accession	P01857
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43912

Additional Information

Other Names	Ig gamma-1 chain C region, IGHG1
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	IGHG1 {ECO:0000303 PubMed:11340299, ECO:0000303 Ref.13}
Function	<p>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.</p>
Cellular Location	[Isoform 1]: Secreted

References

Ellison J.W.,et al.Nucleic Acids Res. 10:4071-4079(1982).
Cunningham B.A.,et al.Biochemistry 9:3161-3170(1970).
Rutishauser U.,et al.Biochemistry 9:3171-3181(1970).
Ponstingl H.,et al.Hoppe-Seyler's Z. Physiol. Chem. 357:1571-1604(1976).
Schmidt W.E.,et al.Hoppe-Seyler's Z. Physiol. Chem. 364:713-747(1983).

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