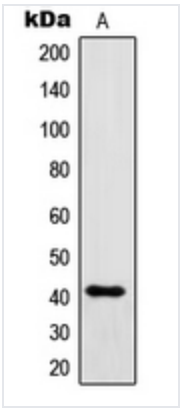
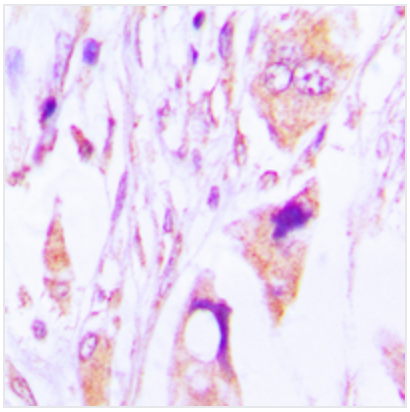
IGHG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IgG1 (IGHG1), Polyclonal Antibody
Full Product Name	Anti-IgG1 Antibody
Product Gene Name	anti-IGHG1 antibody
Product Synonym Names	Ig gamma-1 chain C region
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of IgG1 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	IgG1 peptide (MBS824360) is used for blocking the activity of IgG1 antibody (MBS821423)
Molecular Weight	36,106 Da
OMIM	gene 254500
3D Structure	ModBase 3D Structure for P01857
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IgG1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-IGHG1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-IGHG1 antibody	WB (1/500 - 1/1000), IH (1/100 - 1/200)
Related Product Information for anti-IGHG1 antibody	MBS821423 is an antibody targeting IGHG1. Also known as Anti-IgG1 Antibody. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to IgG1
Other Notes	Small volumes of anti-IGHG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-IGHG1 antibody
Western blot analysis of IgG1 expression in IgG recombinant protein (A).



Immunohistochemistry (IHC) of anti-IGHG1 antibody
Immunohistochemical analysis of IgG1 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGHG1. It may not necessarily be applicable to this product.

NCBI GI #	121039
NCBI GeneID	3500
NCBI Accession #	P01857.1
UniProt Primary Accession #	P01857
UniProt Related Accession #	P01857
NCBI Official Full Name	Ig gamma-1 chain C region, partial
NCBI Official Synonym Full Names	immunoglobulin heavy constant gamma 1 (G1m marker)
NCBI Official Symbol	IGHG1
UniProt Protein Name	Ig gamma-1 chain C region
Protein Family	Ig gamma-1 chain C region
UniProt Gene Name	IGHG1
UniProt Entry Name	IGHG1_HUMAN

UniProt Comments for IGHG1	IGHG1: Defects in IGHG1 are a cause of multiple myeloma (MM). MM is a malignant tumor of plasma cells usually arising in the bone marrow and characterized by diffuse involvement of the skeletal system, hyperglobulinemia, Bence-Jones proteinuria and anemia. Complications of multiple myeloma are bone pain, hypercalcemia, renal failure and spinal cord compression. The aberrant antibodies that are produced lead to impaired humoral immunity and patients have a high prevalence of infection. Amyloidosis may develop in some patients. Multiple myeloma is part of a spectrum of diseases ranging from monoclonal gammopathy of unknown significance (MGUS) to plasma cell leukemia. A chromosomal aberration involving IGHG1 is found in multiple myeloma. Translocation t(11;14)(q13;q32) with the IgH locus. Translocation t(11;14)(q13;q32) with CCND1; translocation t(4;14)(p16.3;q32.3) with FGFR3; translocation t(6;14)(p25;q32) with IRF4. Protein type: Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 14q32.33 Cellular Component: extracellular space; extracellular region Molecular Function: protein binding; antigen binding Biological Process: innate immune response; complement activation, classical pathway; complement activation Disease: Myeloma, Multiple
Research Articles on IGHG1	**1.** These results show distinct epistatic contributions of GM and FcgammaRIIIa alleles to the antibody-dependent cell-mediated cytotoxicity of neuroblastoma cells
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