

Rabbit IgG (Immunoglobulin Gamma Heavy Chain) Monoclonal Antibody | anti-IGHG antibody

IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214393	Rabbit	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

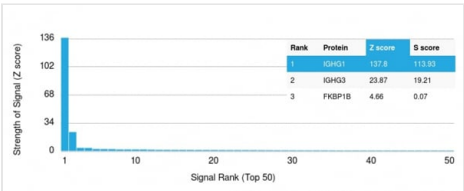
PRODUCT SYNONYMS

IgG (Immunoglobulin Gamma Heavy Chain); Monoclonal Antibody; IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); G1m Marker; G2m Marker; G3m Marker; G4m Marker; HDC; Heavy Chain Disease Protein; Human Immunoglobulin G; Ig gamma1/2/3/4 Chain C Region; IGHG1; IGHG2; IGHG3; IGHG4; Immunoglobulin Heavy Constant γ 1/2/3/4; anti-IGHG antibody

PRODUCT SPECIFICATIONS

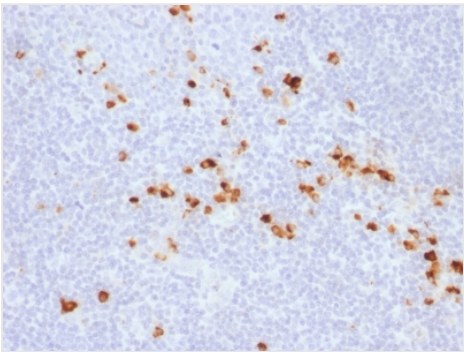
Host	Rabbit
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG, kappa
Clone Number	IG507R
Specificity	Recognizes a protein of 75kDa, identified as gamma heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes. This antibody is useful in the identification of leukemias, plasmacytomas, and certain non-Hodgkins lymphomas. The most common feature of these malignancies is the restricted expression of a single heavy chain class. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant.
Form/Format	200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	330
Applicable Applications for anti-IGHG antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Purified human Ig Gamma Chain
Cellular Localization	Cytoplasm, Cell Surface and Secreted
Hu-chromosome Location	14q32.33
Positive Control	293T, Raji or hPBL cells. Tonsil or Spleen.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

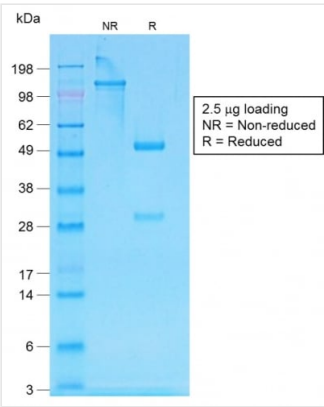


Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using Anti-human IgG (IGHG1) Rabbit Recombinant Monoclonal Antibody (IG507R). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with IgG Rabbit Recombinant Monoclonal Antibody (IG507R).



SDS-PAGE
SDS-PAGE Analysis Purified IgG Rabbit Recombinant Monoclonal Antibody (IG507R).

ADDITIONAL INFORMATION

References	Marder RJ, et al. 1985. Lab. Invest. 52:497.2. Norton AJ and Isaacson PG. 1987. Am. J. Pathol. 128:225.3. Hua ZX, et al. 1998. Hum. Pathol. 29(12):1441.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	121039
NCBI GeneID	3500
UniProt Accession #	P01857; P01859; P01860; P01861; P01911
Molecular Weight	75kDa
NCBI Official Full Name	Immunoglobulin heavy constant gamma 1
NCBI Official Synonym Full Names	immunoglobulin heavy constant gamma 1 (G1m marker)
NCBI Official Symbol	IGHG1
UniProt Protein Name	Immunoglobulin heavy constant gamma 1
UniProt Gene Name	IGHG1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

