

36-2544: Anti-IgG (Immunoglobulin Gamma Heavy Chain) (IGHG) (B-Cell Marker) Monoclonal Antibody(Clone: IG507R)

Clonality :	Monoclonal
Clone Name :	IG507R
Application :	IHC
Reactivity :	Human
Gene :	IGHG
Gene ID :	3500; 3501; 3502; 3503
Uniprot ID :	P01857; P01859; P01860; P01861
Alternative Name :	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 1/2/3/4
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant full-length human IGHG protein

Description

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-Hodgkin's 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of recombinant MAb Purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Known Applications & Suggested Dilutions: Immunohistochemistry (Formalin-fixed) (1-2 µg/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes)

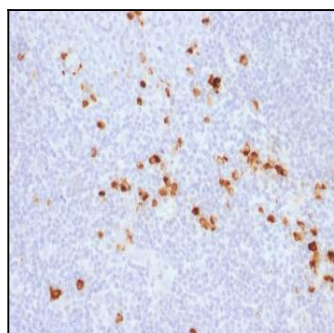


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with IgG Rabbit Recombinant Monoclonal Antibody (IG507R).

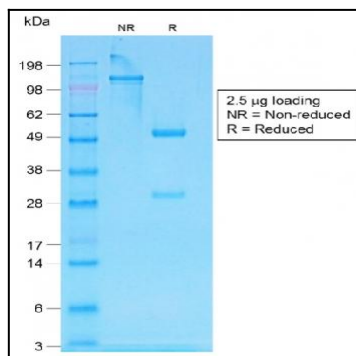


Fig. 2: SDS-PAGE Analysis Purified IgG Rabbit Recombinant Monoclonal Antibody (IG507R). Confirmation of Purity and Integrity of Antibody.

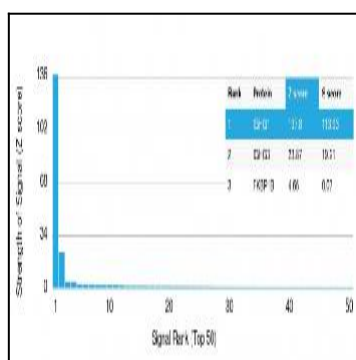


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using Anti-human IgG (IGHG1) Rabbit Recombinant Monoclonal Antibody (IG507R). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.