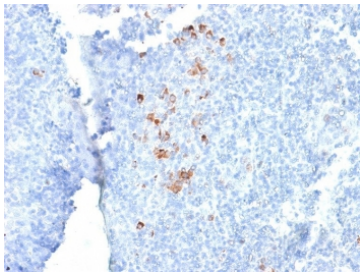
Recombinant Human IgG Antibody [clone rIG266] (V3583)

Catalog No.	Formulation	Size
V3583-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3583-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3583SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

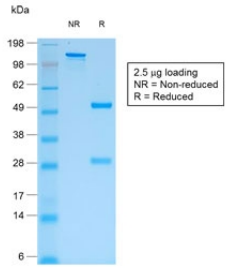
Recombinant MOUSE MONOCLONAL

Bulk quote request

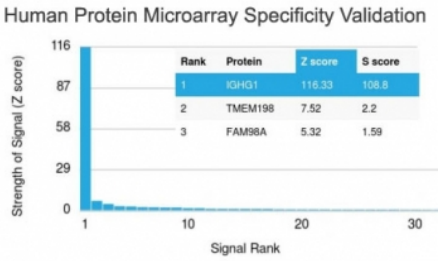
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rIG266
Purity	Protein G affinity chromatography
UniProt	P01857
Localization	Cytoplasm, Cell Surface and Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant human IgG antibody is available for research use only.



IHC testing of FFPE human tonsil with recombinant human IgG antibody (clone rIG266). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant human IgG antibody (clone rIG266) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Human IgG antibody (clone rIG266). These results demonstrate the foremost specificity of the rIG266 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant Human IgG antibody provides a reliable tool for detecting human immunoglobulin G, the most abundant antibody isotype in circulation. IgG plays a central role in adaptive immunity, where it mediates pathogen neutralization, complement activation, and antibody dependent cellular cytotoxicity. Because of its prevalence and functional diversity, human IgG is routinely studied in immunology, infectious disease, and therapeutic antibody research.

IgG is composed of two heavy chains and two light chains, forming a Y shaped molecule with variable antigen binding regions and a constant Fc region. The Fc region interacts with immune receptors and complement proteins, enabling IgG to direct immune effector functions. Different subclasses of IgG (IgG1, IgG2, IgG3, and IgG4) contribute unique properties to immune defense, influencing flexibility, half life, and effector activity.

The Recombinant Human IgG antibody clone rIG266 offers specific detection of human IgG with consistent performance. Recombinant production eliminates variability between lots, making it well suited for quantitative studies and clinical research. Clone rIG266 has been employed to monitor IgG levels in serum, evaluate vaccine responses, and validate therapeutic antibody production. Its reproducibility ensures accuracy across a range of applications.

Research using clone rIG266 has supported investigations into antibody mediated immunity, autoimmune disease, and monoclonal antibody therapy. IgG is widely monitored as a biomarker of immune status and is also a key molecule in biopharmaceutical development. This antibody has contributed to reliable detection of IgG in both laboratory and translational settings.

NSJ Bioreagents provides this Recombinant Human IgG antibody to enable high quality studies of immune function and antibody biology. Human IgG is also referred to as immunoglobulin G antibody, gamma globulin antibody, IgG heavy chain antibody, and Fc gamma receptor binding antibody, illustrating the varied contexts in which it is studied.

Application Notes

The optimal dilution of the recombinant human IgG antibody for each application should be determined by the researcher.

Immunogen

Human Ig Gamma Chain was used as the immunogen for this recombinant human IgG antibody.

Storage

Store the recombinant human IgG antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).