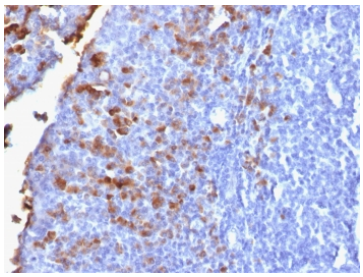
Human IgG Antibody IG1707R / Rabbit Monoclonal [clone IG1707R] (V3468)

Catalog No.	Formulation	Size
V3468-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3468-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3468SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3468IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

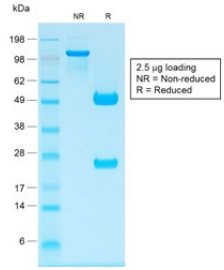
Recombinant RABBIT MONOCLONAL

Bulk quote request

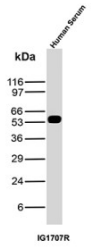
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	IG1707R
Purity	Protein A affinity chromatography
UniProt	P01857
Localization	Cytoplasm, Cell Surface and Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Human IgG Antibody IG1707R is available for research use only.



Human IgG Antibody IG1707R Human Tonsil IHC. Immunohistochemistry was performed on FFPE human tonsil tissue using Human IgG Antibody IG1707R. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM citrate buffer (pH 6) for 10â€“20 minutes followed by cooling at room temperature for 20 minutes prior to staining. Strong cytoplasmic staining is observed in scattered plasma cells within the tonsillar lymphoid tissue, while the surrounding lymphocytes exhibit minimal background staining. This staining pattern is consistent with the expected expression of human IgG in antibody-producing plasma cells. These results demonstrate that Human IgG Antibody IG1707R is suitable for immunohistochemical detection of human IgG in formalin-fixed, paraffin-embedded human tissues.



SDS-PAGE analysis of purified, BSA-free recombinant IgG antibody (clone IG1707R) as confirmation of integrity and purity.



Human IgG Antibody IG1707R Human Serum WB. Western blot analysis was performed using Human IgG Antibody IG1707R on human serum lysate. A distinct immunoreactive band is detected at approximately 50â€“55 kDa, consistent with the expected molecular weight of the human IgG heavy chain. The blot exhibits a strong, specific signal with minimal background, supporting reliable detection of endogenous human IgG in serum samples. These results demonstrate that Human IgG Antibody IG1707R is suitable for Western blot detection of human IgG in serum.

Description

Human IgG Antibody IG1707R is a rabbit monoclonal antibody developed for the highly specific detection of human immunoglobulin G, the predominant antibody class in human serum. Human IgG consists of two gamma heavy chains and two light chains that mediate antigen recognition while activating numerous immune effector mechanisms, including complement activation and Fc receptor engagement. The rabbit monoclonal format of clone IG1707R combines high affinity with exceptional specificity and excellent lot-to-lot consistency, making Human IgG Antibody IG1707R a dependable reagent for immunological and biomedical research. NSJ Bioreagents supplies this antibody to support reliable detection of human IgG across a broad range of experimental applications.

Human IgG is produced by mature plasma cells following antigen stimulation and class-switch recombination and represents approximately three-quarters of total serum immunoglobulin. It plays an essential role in adaptive immunity by neutralizing pathogens, promoting opsonization, activating the classical complement pathway, and mediating antibody-dependent cellular cytotoxicity. Because of its abundance and biological importance, Human IgG Antibody IG1707R is widely used to identify plasma cells, characterize humoral immune responses, and evaluate immunoglobulin expression in normal and diseased tissues.

Rabbit monoclonal antibodies are recognized for their ability to detect epitopes with high sensitivity while maintaining excellent specificity and reproducibility. These characteristics make clone IG1707R well suited for applications including immunohistochemistry, Western blotting, and other immunodetection techniques requiring robust and consistent performance. Human IgG Antibody IG1707R is valuable for studies of lymphoid tissues, plasma cell neoplasms, autoimmune disorders, chronic inflammation, infectious disease, and therapeutic antibody research, where accurate identification of human IgG is essential.

Human IgG Antibody IG1707R provides reliable detection of human immunoglobulin G in studies of humoral immunity,

plasma cell biology, antibody production, and immune-mediated disease. The rabbit monoclonal format of clone IG1707R delivers the specificity, sensitivity, and reproducibility required for high-quality immunological research across diverse experimental systems.

Explore our Human IgG Antibody page for additional antibodies supporting sensitive and specific detection of human IgG across a wide range of immunological research applications.

Application Notes

The optimal dilution of the Human IgG Antibody IG1707R for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human Ig Gamma Chain was used as the immunogen for this Human IgG Antibody IG1707R.

Storage

Store the Human IgG Antibody IG1707R at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

IGHG1 antibody, Immunoglobulin G antibody, Human Immunoglobulin G antibody, Ig Gamma Heavy Chain antibody, Human IgG Heavy Chain antibody, Immunoglobulin Gamma antibody

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