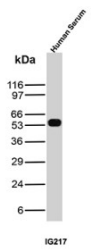
Human IgG Antibody IG217 / Mouse Monoclonal [clone IG217] (V3147)

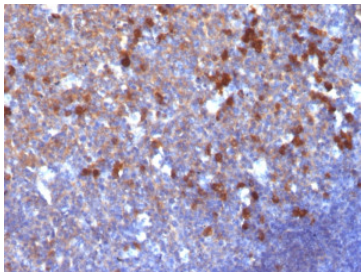
Catalog No.	Formulation	Size
V3147-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3147-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3147SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3147IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

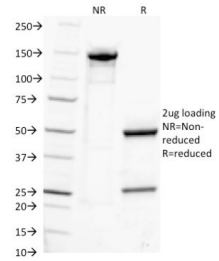
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IG217
Purity	Protein G affinity chromatography
UniProt	P01857, P01859, P01860, P01861
Localization	Cytoplasm, Cell Surface and Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT (1) (2) Western blot: 2-4ug/ml
Limitations	This Human IgG Antibody IG217 is available for research use only.



Human IgG Antibody IG217 Human Serum WB. Western blot analysis was performed using Human IgG Antibody (clone IG217) 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 clone IG217 is suitable for Western blot detection of human IgG in serum.



Human IgG Antibody IG217 Human Tonsil IHC. Immunohistochemistry was performed on formalin-fixed, paraffin-embedded human tonsil tissue using Human IgG Antibody (clone IG217). Strong cytoplasmic staining is observed in scattered plasma cells within the tonsillar lymphoid tissue, while the surrounding lymphocyte population exhibits 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 clone IG217 is suitable for immunohistochemical detection of human IgG in formalin-fixed, paraffin-embedded human tissues.



SDS-PAGE Analysis of Purified, BSA-Free IgG Antibody clone IG217. Confirmation of Integrity and Purity of the Antibody.

Description

Human IgG Antibody IG217 is a mouse monoclonal antibody developed for the detection of human immunoglobulin G, the most abundant immunoglobulin class present in human serum. Human IgG is composed of two gamma heavy chains and two light chains that together mediate antigen recognition and immune effector functions. As a highly specific monoclonal reagent, Human IgG Antibody clone IG217 enables reliable detection of endogenous human IgG in immunological, pathological, and biomedical research applications. NSJ Bioreagents provides clone IG217 to support reproducible analysis of human immunoglobulin G in tissue, serum, and other biological specimens.

Human IgG plays a central role in adaptive immunity by neutralizing pathogens, promoting opsonization, activating the classical complement pathway, and engaging Fc gamma receptors expressed on immune cells. It is produced by differentiated plasma cells following antigen exposure and class-switch recombination, providing durable humoral immunity and immunological memory. Because IgG represents the predominant antibody class in circulation, Human IgG Antibody is widely used to investigate plasma cell biology, antibody production, immune responses, and lymphoid tissue architecture.

Detection of human IgG is valuable across numerous areas of research, including infectious disease, autoimmune disorders, transplantation, hematopathology, and therapeutic antibody development. Immunohistochemical identification of IgG-producing plasma cells contributes to characterization of inflammatory infiltrates and plasma cell-rich lesions, while Western blot detection of IgG is frequently used for serum analysis and assay validation. Clone IG217 provides the consistency and specificity expected from a monoclonal antibody, supporting reproducible results across multiple experiments and laboratories.

Human IgG Antibody clone IG217 is a dependable reagent for investigating humoral immunity, plasma cell differentiation, antibody production, and immune-mediated disease. Whether analyzing normal lymphoid tissues, inflammatory lesions, serum samples, or immunoglobulin expression, this mouse monoclonal antibody provides reliable detection of human IgG in diverse research applications.

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 IG217 for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.
2. 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

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

Storage

Store the IgG antibody 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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