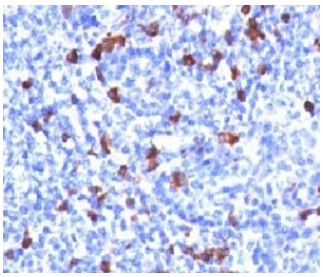
Human IgG Antibody GHC07-1 / Mouse Monoclonal [clone GHC07-1] (V7032)

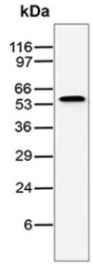
Catalog No.	Formulation	Size
V7032-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7032-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7032SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7032IHC-7ML	Prediluted 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	GHC07-1
Purity	Protein G affinity chromatography
UniProt	P01857
Localization	Cytoplasm, Cell Surface and Secreted
Applications	Western blot: 2-4ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Prediluted IHC only format: incubate for 30 min at RT (1)
Limitations	This Human IgG Antibody GHC07-1 is available for research use only.



Human IgG Antibody GHC07-1 Tonsil IHC. Immunohistochemistry testing of human tonsil and IgG antibody (clone GHC07-1). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



Human IgG Antibody GHC07-1 Human Serum WB. Western blot analysis was performed using IgG Antibody clone GHC07-1 on human serum lysate. A distinct immunoreactive band is detected at approximately 50 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 this Human IgG Antibody is suitable for Western blot detection of IGHG1 in human serum.

Description

Human IgG Antibody GHC07-1 is a mouse monoclonal antibody developed for the specific detection of human immunoglobulin G, the most abundant antibody class in human serum. Human IgG consists of two gamma heavy chains and two light chains that function together to recognize antigens and mediate immune effector mechanisms including complement activation, opsonization, and Fc receptor binding. As a monoclonal reagent, Human IgG Antibody GHC07-1 provides high specificity, reproducible performance, and consistent batch-to-batch results for immunological and biomedical research. NSJ Bioreagents supplies this antibody to support reliable detection of human IgG across a broad range of laboratory applications.

Human IgG is produced by plasma cells following antigen exposure and class-switch recombination and serves as the principal mediator of long-term humoral immunity. It neutralizes pathogens and toxins while promoting phagocytosis and antibody-dependent cellular cytotoxicity, making it essential for protective immune responses. Because of its abundance and biological importance, Human IgG Antibody GHC07-1 is widely used to identify plasma cells, evaluate antibody production, and characterize humoral immune responses in both normal and pathological tissues.

Mouse monoclonal antibodies remain a widely used platform for immunodetection because of their excellent specificity and reproducibility. Clone GHC07-1 is well suited for applications including immunohistochemistry, Western blotting, and related techniques requiring dependable detection of human immunoglobulin G. Human IgG Antibody GHC07-1 is valuable for studies involving lymphoid tissues, plasma cell disorders, autoimmune disease, chronic inflammation, infectious disease, and therapeutic antibody research, where accurate identification of human IgG expression is essential.

Human IgG Antibody GHC07-1 provides reliable detection of human immunoglobulin G for investigations of plasma cell biology, antibody production, adaptive immunity, and immune-mediated disease. The mouse monoclonal format of clone GHC07-1 delivers the specificity and consistency 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 GHC07-1 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 GHC07-1.

Storage

Store the Human IgG Antibody GHC07-1 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Human IgG antibody, Recombinant Human IgG antibody, IGHG1 antibody, Immunoglobulin G antibody, Human Immunoglobulin G antibody

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