

Datasheet for 609-301-002**Human IgG (H&L) Antibody****Overview**

Description:	Mouse Anti-Human IgG (H&L) Antibody - 609-301-002
Item No.:	609-301-002
Size:	1 mg
Applications:	ELISA, WB, Other
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-Human IgG (H&L) generated in mouse detects human Immunoglobulin G (IgG), both heavy and light chains of the antibody molecule are present. It is a protein complex composed of four peptide chains — two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. Each IgG has two antigen binding sites. Representing approximately 75% of serum immunoglobulins in humans, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
Synonyms:	Mouse Anti-Human IgG Antibody, Mouse Anti Human IgG Antibody
Host Species:	Mouse
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
Immunogen:	Human IgG whole molecule

Purity/Specificity:	This product was prepared from monospecific polyclonal ascites by immunoaffinity chromatography using Human IgG coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum, Human IgG and Human Serum.
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Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	Other (Based on references)
Application Note:	Mouse Anti-Human IgG (H&L) has been tested by ELISA and western blot and is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:50,000
IHC:	1:1,000 - 1:5,000
WB:	1:500 - 1:5,000

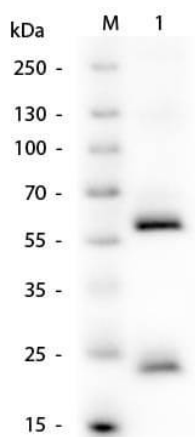
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.13 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Human IgG Antibody. M: 3 μ L Opal Prestained Ladder (MB-210-0500). Lane 1: Human IgG (p/n 009-0102). Load: 50 ng per lane. Primary antibody: Human IgG Antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase conjugated mouse secondary antibody at 1:40,000 for 30 minutes at RT. Block: (p/n MB-070) for 30 minutes at RT. Predicted/Observed size: 55 kDa, 25 kDa for Human IgG.

References

- Birebent B et al. Monoclonal anti-idiotypic antibody mimicking the gastrointestinal carcinoma-associated epitope CO17-1A elicits antigen-specific humoral and cellular immune responses in colorectal cancer patients. *Vaccine* (2003)

Disclaimer

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