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Datasheet for 609-101-123

Human IgG (H&L) Antibody Pre-Adsorbed

Overview

Description:	Goat Anti-Human IgG (H&L) Antibody (Min X Bv Ch Gt GP Ham Hs Ms Rb Rt & Sh Serum Proteins) - 609-101-123
Item No.:	609-101-123
Size:	1 mg
Applications:	ELISA, Microarray
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgG (H&L) generated in goat 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:	Goat Anti Human IgG Antibody Pre-Adsorbed, Goat Anti-Human IgG Antibody Pre-Adsorbed
Host Species:	Goat
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 antiserum 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-Goat Serum, Human IgG and Human Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Mouse, Rabbit, Rat and Sheep Serum Proteins.

Application Details

Tested Applications:	ELISA
Suggested Applications:	Microarray (Based on references)
Application Note:	Anti-Human IgG antibody has been tested by ELISA and is suitable for western blot and immunohistochemistry, as well as other assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:2,000
WB:	1:2,000 - 1:10,000

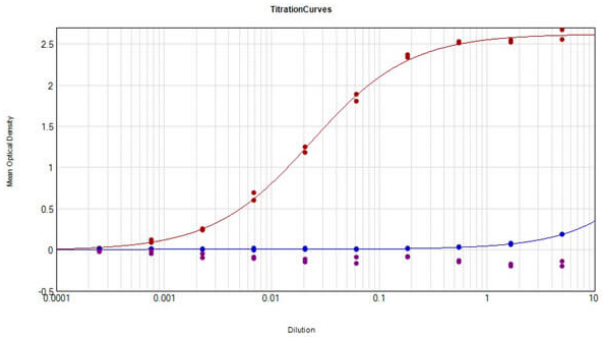
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.99 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



ELISA
ELISA Results of Goat Anti-Human IgG Antibody (MX Bv Ch Gt GP Ham Hs Ms Rb Rt Sh Serum Proteins) tested against purified Human IgG MX10. Each well was coated in duplicate with 1.0 µg of Human IgG (p/n 009-0102) [Red Line], Bovine IgG (p/n 001-0102) [Blue Line], Chicken IgG (003-0102), Goat IgG (p/n 005-0102) [Purple Line], Guinea Pig IgG (p/n 006-0102), Hamster IgG (p/n 007-0102), Horse IgG (p/n 008-0102), Mouse IgG (p/n 010-0102), Rabbit IgG (p/n 011-0102), Rat IgG (p/n 012-0102), Sheep IgG (p/n 013-0102). The working dilution is 1:184,500. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Donkey Anti-Goat IgG HRP conjugated (p/n 605-703-125) and TMB substrate (p/n TMBE-1000).

References

- Metz I, Beißbarth T, Ellenberger D, et al. Serum peptide reactivities may distinguish neuromyelitis optica subgroups and multiple sclerosis. *Neurol Neuroimmunol Neuroinflamm.* (2016)
- Bucukovski, J et al. A Multiplex Label-Free Approach to Avian Influenza Surveillance and Serology. *PloS One* (2015)

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