

Datasheet for 609-1102

Human IgG (H&L) Antibody

Overview

Description:	Goat Anti-Human IgG (H&L) Antibody - 609-1102
Item No.:	609-1102
Size:	2 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:	Human Antibody, Gt-a-Human IgG, Human Antibody in Goat, Human Secondary Antibody, Goat anti Human Antibody, Goat Anti-Human IgG Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Anti-Human IgG whole molecule was produced by repeated immunization with Human IgG whole molecule in goat.
Purity/Specificity:	Anti-HUMAN IgG (H&L) (GOAT) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG coupled to agarose. Anti-HUMAN IgG (H&L) (GOAT) Antibody Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Human IgG and Human Serum.

Application Details

Tested Applications:	ELISA
Suggested Applications:	Microarray (Based on references)
Application Note:	Anti-Human IgG has been tested by ELISA and is suitable for immunoblotting (western or dot blot), ELISA, immunoelectron microscopy and immunohistochemistry as well as other antibody based enzymatic 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 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.2 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.

References

- Prabhakaran M et al. A sensitive method to quantify HIV-1 antibodies in mucosal samples. *J Immunol Methods*. (2021)
- Serrano-Coll, H et al. Social and environmental conditions related to Mycobacterium leprae infection in children and adolescents from three leprosy endemic regions of Colombia. *Bmc Infectious Diseases* (2019)
- 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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