

Datasheet for 609-6102

Human IgG (H&L) Antibody

Overview

Description:	Sheep Anti-Human IgG (H&L) Antibody - 609-6102
Item No.:	609-6102
Size:	2 mg
Applications:	ELISA
Reactivity:	Human
Host Species:	Sheep

Product Details

Background:	Anti-Human IgG (H&L) generated in sheep 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:	Sheep Anti Human IgG Antibody, Sheep Anti-Human IgG Antibody
Host Species:	Sheep
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-Sheep Serum, Human IgG and Human Serum.

Relevant Links:

- [609-6102 SDS](#)

Application Details

Tested Applications: ELISA

Application Note: Anti-Human IgG antibody has been tested by ELISA and is suitable for ELISA, 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: 1:30,000 - 1:60,000

IHC: 1:1,000 - 1:5,000

WB: 1:5,000 - 1:20,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 2.1 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

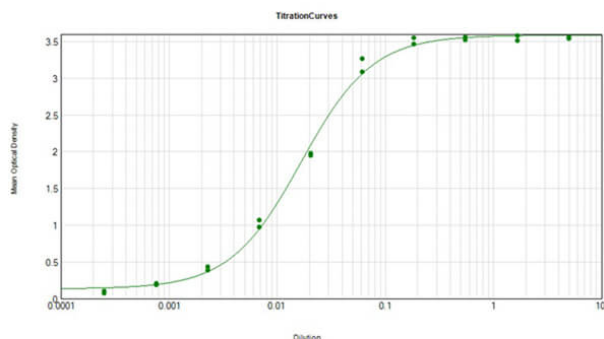
Shipping & Handling

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 Sheep Anti-Human IgG Antibody tested against purified Human IgG. Each well was coated in duplicate with 1.0 µg of Human IgG (p/n 009-0102). The working dilution is 1:60000. 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 HRP Conjugation Stabilizer (p/n MB-076), Donkey Anti-Sheep IgG HRP conjugated (p/n 613-703-168) and TMB substrate (p/n TMBE-1000).

References

- 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)

Disclaimer

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