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Datasheet for 613-4102

Sheep IgG (H&L) Antibody

Overview

Description:	Rabbit Anti-Sheep IgG (H&L) Antibody - 613-4102
Item No.:	613-4102
Size:	2 mg
Applications:	ELISA, LFA, Other
Reactivity:	Sheep
Host Species:	Rabbit

Product Details

Background:	Anti-Sheep IgG (H&L) generated in rabbit detects sheep Immunoglobulin G. Both the Heavy and Light chains of the antibody molecule are present. Representing approximately 75% of serum immunoglobulins, 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:	Rabbit Anti-Sheep IgG Antibody, Rabbit Anti Sheep IgG Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Sheep
Immunogen:	Sheep IgG whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Sheep IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Sheep IgG and Sheep Serum.

Application Details

Tested Applications:	ELISA
Suggested Applications:	LFA, Other (Based on references)
Application Note:	Anti-Sheep IgG antibody has been tested by ELISA and is suitable for use in ELISA, lateral flow, immunohistochemistry, and western blot. Specific conditions for reactivity 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:	1:50,000 - 1:200,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

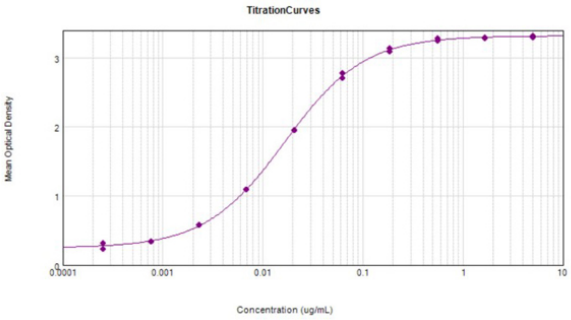
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.0 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 Rabbit Anti-Sheep IgG Antibody tested against purified Sheep IgG protein. Each well was coated in duplicate with 10 µg of Sheep IgG (p/n 013-0102). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. The titer is 1:60,800. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 1% fish gelatin as blocking buffer, Goat Anti-Rabbit IgG Peroxidase (p/n 611-103-122), and TMB substrate p/n TMBE-1000.

References

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- van der Staay Effects of chronic stress: a comparison between tethered and loose sows. *Physiol Behav.* (2010)
- Erkens JH et al. A time-resolved fluoroimmunoassay for cortisol in unextracted bovine plasma or serum with optimized procedures to eliminate steroid binding protein interference and to minimize non-specific streptavidin-europium binding. *J Steroid Biochem Mol Biol.* (1998)

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