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Datasheet for 605-703-002

Goat IgG (H&L) Antibody Peroxidase Conjugated

Overview

Description:	Donkey Anti-Goat IgG (H&L) Antibody Peroxidase Conjugated - 605-703-002
Item No.:	605-703-002
Size:	2 mg
Applications:	ELISA, WB
Reactivity:	Goat
Host Species:	Donkey

Product Details

Background:	Anti-Goat IgG Peroxidase Antibody generated in donkey detects goat IgG. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F (ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present.
Synonyms:	Donkey anti-Goat IgG Antibody Peroxidase conjugation, Donkey anti-Goat IgG HRP conjugated antibody
Host Species:	Donkey
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat
Immunogen Type:	Native Protein

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

Application Details

Tested Applications:	ELISA
Suggested Applications:	WB (Based on references)
Application Note:	Anti-Goat IgG (H&L) is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. It is also suitable in IHC. 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:	1:10,000 - 1:150,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

Formulation

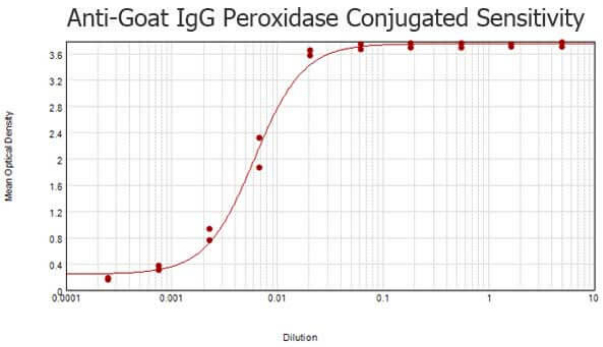
Physical State:	Lyophilized
Concentration:	2.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient

Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA results of purified Donkey anti-Goat IgG antibody Peroxidase conjugated tested against purified Goat IgG. Each well was coated in duplicate with 1.0 µg of Goat IgG (p/n 005-0102-0010). 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 3% fish gelatin as blocking buffer, and TMB substrate (p/n TMBE-1000).

References

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- Tarassishin L et al. Interleukin-1-induced changes in the glioblastoma secretome suggest its role in tumor progression. *Journal of Proteomics* (2014)
- Gauthamadasa K et al. Apolipoprotein A-II-mediated conformational changes of apolipoprotein A-I in discoidal high density lipoproteins. *J Biol Chem.* (2012)

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