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Datasheet for 605-4302

Goat IgG (H&L) Secondary Antibody Peroxidase Conjugated

Overview

Description:	Rabbit Anti-Goat IgG (H&L) Antibody Peroxidase Conjugated - 605-4302
Item No.:	605-4302
Size:	2 mg
Applications:	ELISA, IHC, WB
Reactivity:	Goat
Host Species:	Rabbit

Product Details

Background:	Anti-Goat IgG Peroxidase Antibody generated in rabbit 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. 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-Goat IgG Peroxidase Conjugated Antibody, rabbit anti-Goat IgG HRP Conjugated Antibody, HRP anti-goat IgG, Peroxidase anti-Goat IgG
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat

Immunogen:	Goat IgG whole molecule
Purity/Specificity:	Rabbit Anti-Goat IgG secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Goat 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-Peroxidase, anti-Rabbit Serum, Goat IgG and Goat Serum.
Relevant Links:	• 605-4302 SDS

Application Details

Tested Applications:	ELISA
Suggested Applications:	IHC, WB (Based on references)
Application Note:	Anti-Goat IgG Peroxidase conjugate has been tested by ELISA and western blot. This antibody 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:	1:50,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:5,000 - 1:20,000

Formulation

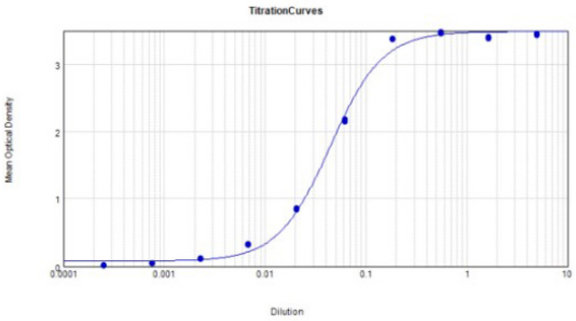
Physical State:	Lyophilized
Concentration:	2.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free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

Shipping & Handling

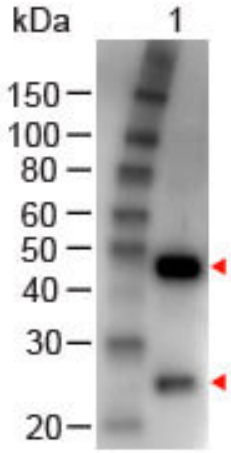
Shipping Condition:	Ambient

Storage Condition:	Store Secondary Antibody at 4° C prior to restoration. For extended storage aliquot antibody 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 Rabbit Anti-Goat IgG Antibody Peroxidase Conjugated tested against purified Goat IgG protein. Each well was coated in duplicate with 1.0 µg of Goat IgG (p/n 005 -0102). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. The titer is 1:22,700. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using TMB substrate p/n TMBE-1000.



Western Blot
Western Blot of Rabbit anti-GOAT IgG (H&L) Antibody Peroxidase Conjugated. Lane 1: Goat IgG. Load: 100 ng per lane. Secondary antibody: GOAT IgG (H&L) Antibody Peroxidase Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT.

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