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Datasheet for 610-4302

Mouse IgG (H&L) Secondary Antibody Peroxidase Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG (H&L) Antibody Peroxidase Conjugated - 610-4302
Item No.:	610-4302
Size:	2 mg
Applications:	ELISA, WB, IF, Other
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Secondary antibodies bind to the primary antibody to assist in detection, sorting and purification of target antigens. To enable detection, the secondary antibody must have specificity for the antibody species and isotype of the primary antibody being used and generally is conjugated. Rockland produces highly active antibodies and conjugates against mouse immunoglobulins. Anti-Mouse Secondary Antibodies are affinity-purified polyclonal antibodies with well-characterized specificity for mouse immunoglobulin classes, subclasses, and fragments. They are available as unlabeled antibodies as well as conjugates of alkaline phosphatase (AP), horseradish peroxidase (HRP), fluorescent conjugates, and biotin. This Anti-MOUSE IgG generated in rabbit is designed to detect heavy and light chains (H&L) and has been Peroxidase (HRP) conjugated. Rigorous quality control testing ensures that the finished product meets or exceeds out high standards for optimum performance in your assays. These secondary antibodies are used throughout various types of assays, including ELISA or Western Blot, Immunohistochemistry, Flow Cytometry. Optimal secondary antibody requires knowledge of the detection assay.
Synonyms:	Rabbit Anti-Mouse IgG Secondary Antibody Peroxidase Conjugated, Rabbit Anti-Mouse IgG Secondary Antibody HRP Conjugated, RAM-HRP, Anti-mouse secondary antibody, anti-mouse HRP antibody, horseradish peroxidase conjugated secondary antibody, anti-mouse horseradish peroxidase conjugated secondary antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal

Format:	IgG
F/P Ratio:	0.445

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	HRP Secondary Antibody Conjugate was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Mouse IgG and Mouse Serum.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IF, Other (Based on references)
Application Note:	Anti-Mouse secondary antibody conjugated to horseradish peroxidase (HRP) generated in rabbit detects specifically Mouse IgG whole molecule. Anti-Mouse IgG peroxidase antibody has been tested by ELISA and western blot and is suitable for ELISA, Sandwich ELISA, titration assays, western-blot, immunoprecipitation, Immunohistochemistry as well as other HRP antibody based assays. 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:	1:50,000 - 1:300,000
IHC:	1:500 - 1:2,500
WB:	1:10,000 - 1:30,000

Formulation

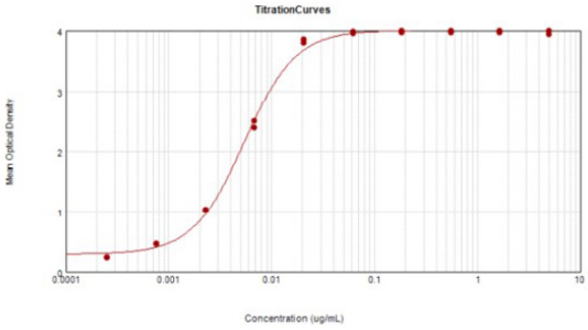
Physical State:	Lyophilized
Concentration:	2 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

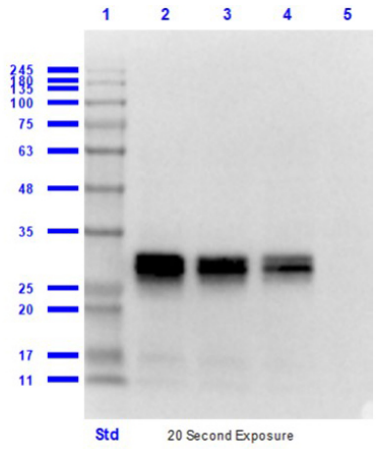
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store mouse secondary antibody conjugate 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.

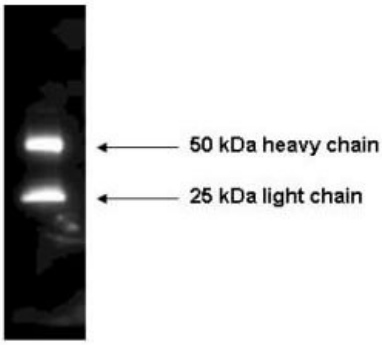
Images



ELISA
ELISA Results of Rabbit Anti-Mouse IgG Peroxidase Antibody tested against purified Mouse IgG protein. Each well was coated in duplicate with 10 µg of Mouse IgG (p/n 010-0102). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. The titer is 1:185,000. 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.



Western Blot
Western blot using Rabbit Anti-Mouse IgG Peroxidase Conjugated Antibody and Mouse Anti-GFP Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: HeLa WC Lysate+GFP protein (p/n W09-000-364 [10µg]/ p/n 000-001-215 [0.1µg]). Lane 3: HeLa WC Lysate+GFP protein [10µg/0.066µg]. Lane 4: HeLa WC Lysate +GFP protein [10µg/0.033µg]. Lane 5: HeLa Whole Cell Lysate (p/n W09-000-364) [10µg]. Primary Antibody: Anti-GFP at 1:1000 overnight at 2-8°C. Secondary Antibody: Rabbit Anti-Mouse IgG HRP (p/n 610-4302) at 1:40,000 for 30mins at RT. Block: BlockOut Buffer (p/n MB-073) for 60mins at RT. Expected MW: ~27kDa.



Western Blot
Western Blot of Rockland's Anti-Mouse IgG Antibody Peroxidase Conjugated detecting mouse IgG. Mouse IgG (1.0 mg) was separated on a 4-20% gradient gel and then transferred to Whatman Protran BA 85 nitrocellulose (0.45 µm pore size), and blocked with 5% BLOTTO (p/n B501-0500) o/n at 4° C. The membrane was then probed with a 1:2,500 dilution of HRP Rb-a-Mouse IgG [H&L] (p/n 610-4302) for 45 min at RT. FemtoMax Super Sensitive Chemiluminescent HRP Substrate (p/n FEMTOMAX-110) was added and the image was captured using a BioSpectrum Imaging System with a BioChemi 500 -28C cooled 4.0 Megapixel CCD Camera from UVP (www.uvp.com, Upland, CA). Binning: 5X5. Exposure time: 2 min. Aperture open. No emission or excitation filters used.

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