

Datasheet for 610-4320**Mouse IgG (H&L) Antibody Peroxidase Conjugated Pre-Adsorbed****Overview**

Description:	Rabbit Anti-Mouse IgG (H&L) Antibody Peroxidase Conjugated (Min X Human Serum Proteins) - 610-4320
Item No.:	610-4320
Size:	2 mg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG Peroxidase Antibody generated in rabbit detects reactivity to Mouse 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 complement 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 the 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-Mouse IgG Antibody peroxidase Conjugation, Rabbit Anti-Mouse IgG Antibody peroxidase Conjugated, Rabbit Anti-Mouse IgG HRP Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.485

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse 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, Mouse IgG, and Mouse Serum. No reaction was observed against Human Serum Proteins. Specificity was confirmed by ELISA at less than 1% cross reactivity against other mouse or human heavy or light chain isotypes.

Application Details

Tested Applications:	ELISA
Suggested Applications:	WB (Based on references)
Application Note:	Anti-Mouse IgG Peroxidase Antibody has been tested by ELISA and is suitable for ELISA, Sandwich ELISA, titration assays, western-blot, immunoprecipitation, Immunohistochemistry. 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:	1:5,000 - 150,000
IHC:	1:200 - 1:1,000
WB:	1:500 - 1:2,500

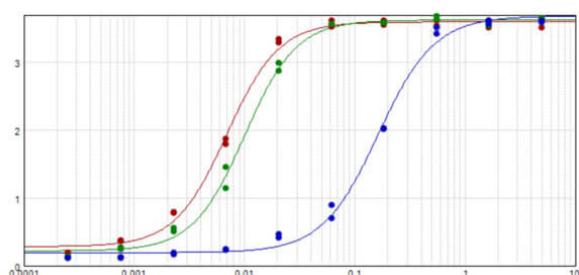
Formulation

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 Rabbit Anti-Mouse IgG Peroxidase Conjugated Antibody tested against purified Mouse IgG. (Red Line). Each well was coated in duplicate with 1.0 µg of antigen. 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 Blocking buffer (p/n MB-060-1000) and TMB substrate (p/n TMBE-1000).

References

- Fegan, JE et al. Utility of Hybrid Transferrin Binding Protein Antigens for Protection Against Pathogenic Neisseria Species. *Frontiers in Immunology* (2019)
- Platt TL et al. Obesity, diabetes, and leptin resistance promote tau pathology in a mouse model of disease. *Neuroscience* (2016)
- Beckett TL et al. Postmortem Pittsburgh Compound B (PiB) binding increases with Alzheimer's disease progression. *Journal of Alzheimer's Disease : JAD* (2012)
- Wilkie MP et al. The relationship between NMDA receptor function and the high ammonia tolerance of anoxia-tolerant goldfish. *J Exp Biol.* (2011)
- O'shannessy, DJ et al. Characterization of the human folate receptor alpha via novel antibody-based probes. *Oncotarget* (2011)
- Beckett TL et al. Effects of nonsteroidal anti-inflammatory drugs on amyloid-beta pathology in mouse skeletal muscle. *Neurobiology of Disease* (2010)

Disclaimer

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