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Datasheet for 610-1307-0250

Mouse IgM (mu chain) Antibody Peroxidase Conjugated

Overview

Description:	Goat Anti-Mouse IgM (mu chain) Antibody Peroxidase Conjugated - 610-1307-0250
Item No.:	610-1307-0250
Size:	250 µg
Applications:	ELISA, IHC, WB
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	Anti-Mouse IgM (mu chain) peroxidase conjugated antibody generated in goat detects specifically mouse IgM. Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum. Anti-Mouse IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.
Synonyms:	goat anti-Mouse IgM (Mu Chain) Peroxidase Conjugated Antibody, goat anti-Mouse IgM Mu Chain Antibody HRP Conjugation
Host Species:	Goat
Specificity:	IgM µ chain
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgM whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgM 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-Goat Serum, Mouse IgM and Mouse Serum. No reaction was observed against other mouse heavy or light chain proteins.

Application Details

Suggested Applications:	ELISA, IHC, WB (Based on references)
Application Note:	Mouse IgM (mu chain) peroxidase conjugated Antibody is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring extremely low background levels, lot-to-lot consistency, high titer and specificity.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:30,000
IHC:	1:500 - 1:2,000
WB:	1:1,000 - 1:5,000

Formulation

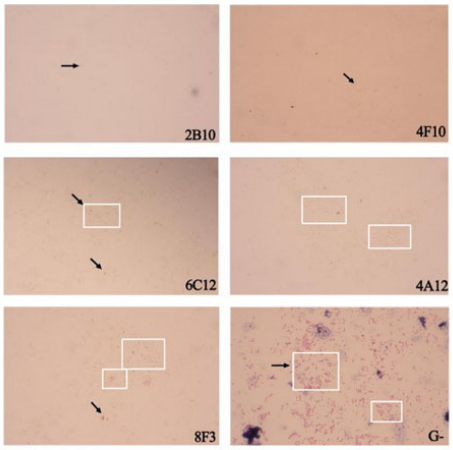
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	250 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

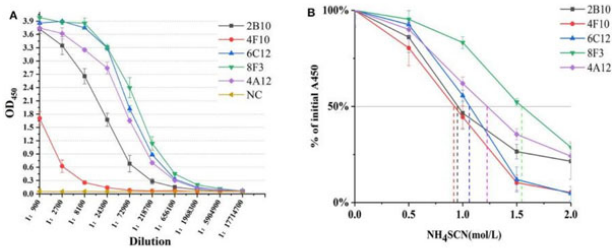
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 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



Immunocytochemistry
Immunochemical Staining using Goat Anti-Mouse IgM HRP. Identification of intact B. melitensis strain by ICS with mAbs. The intact bacteria of B. melitensis strain were stained by ICS with individual mAbs. Saturated with goat anti-mouse IgG and IgM HRP conjugate. Bacteria were visualized with diaminobenzidine (DAB) substrate for color development. G-, Gram staining for bacterial control of B. melitensis strain examined under white light with a microbiological microscope.
Figure S2. PMID: 32373546.



ELISA
ELISA results using Goat Anti-Mouse IgM HRP. Determination of mAb titer and affinity. (A) Titration of mAb by an indirect ELISA. The mAb was serially diluted in 1:3. The optimum working concentration was determined for a midpoint of the steep portion of the curve. (B) The measurement of antibody relative affinity by thiocyanate elution assay. The affinity index was estimated by the molarity of NH4SCN causing 50% reduction from initial absorbance in the elution curves. All experiments were carried out in triplicate and the results were calculated from three independent experiments.
Figure 2. PMID: 32373546.

References

- Yang X, He Z, Zhang G, et al. Evaluation of Reactivity of Monoclonal Antibodies Against Omp25 of Brucella spp. *Front Cell Infect Microbiol.* (2020)
- Poppenborg SM et al. Impact of anti-PEG IgM antibodies on the pharmacokinetics of pegylated asparaginase preparations in mice. *Eur J Pharm Sci.* (2016)

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