Datasheet for ABIN102678

Goat anti-Mouse IgM Antibody (HRP)

2 Images

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Overview

Quantity:	1 mg
Target:	IgM
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Mouse IgM (mu chain) Antibody Peroxidase Conjugated
Immunogen:	Immunogen: Mouse IgM whole molecule Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	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.
Characteristics:	MOUSE IgG F(ab')2 (GOAT) Antibody is generated in goat detects specifically Mouse IgG F(ab')2 fragment. This secondary antibody anti-Mouse is ideal for investigators who routinely perform ELISA, Sandwich ELISA, titration assays, western-blot, immunoprecipitation and more generally immunoassays. Anti-Mouse IgG F(ab')2 antibody is ideal for investigators involved in serum protein component research.

Product Details

Purification:	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.

Target Details

Target:	IgM
Abstract:	IgM Products
Target Type:	Antibody
Background:	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 900 kDa 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.

Application Details

Application Notes:	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. Immunohistochemistry Dilution: 1:500 - 1:2,000 Western Blot Dilution: 1:1,000 - 1:5,000 ELISA Dilution: 1:30,000 Other: User Optimized
Restrictions:	For Research Use only

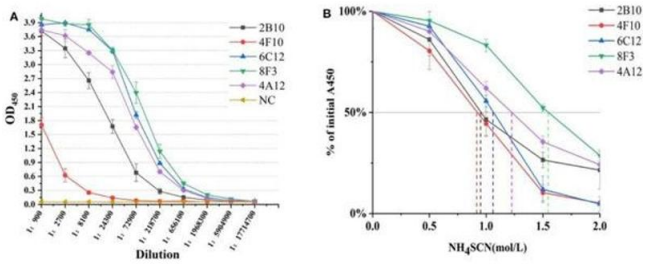
Handling

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

Handling

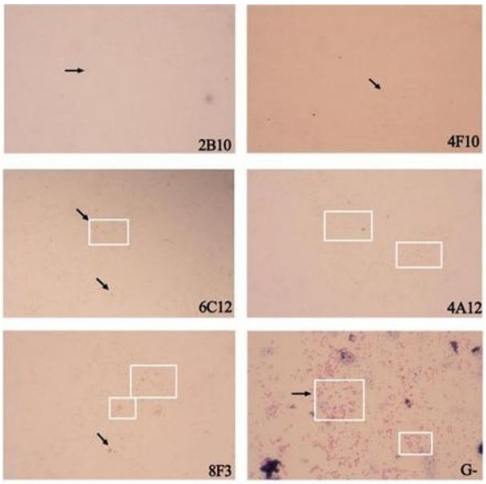
Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze 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.
Expiry Date:	12 months

Images



ELISA

Image 1. 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.



Immunocytochemistry

Image 2. 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.

