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+1 484.791.3823

Datasheet for 609-1607

Human IgM Antibody Biotin Conjugated

Overview

Description:	Goat Anti-Human IgM Antibody Biotin Conjugated - 609-1607
Item No.:	609-1607
Size:	1 mg
Applications:	ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgM (mu heavy chain) Biotin generated in goat detects specifically Human IgM mu heavy chain. 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. Anti-Human IgM mu chain antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.
Synonyms:	Goat Anti-Human IgM Antibody biotin Conjugation
Host Species:	Goat
Specificity:	IgM μ chain
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
Immunogen:	Human IgM whole molecule

Purity/Specificity:	Anti-HUMAN IgM (mu chain) (GOAT) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Human 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-biotin, anti-Goat Serum, Human IgM and Human Serum. No reaction was observed against other Human heavy or light chain proteins.

Application Details

Tested Applications:	ELISA
Application Note:	Anti-HUMAN IgM (mu chain) (GOAT) Antibody has been tested by ELISA and is assayed against 1.0 µg of Human IgM in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:17,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:150,000 - 1:250,000

Formulation

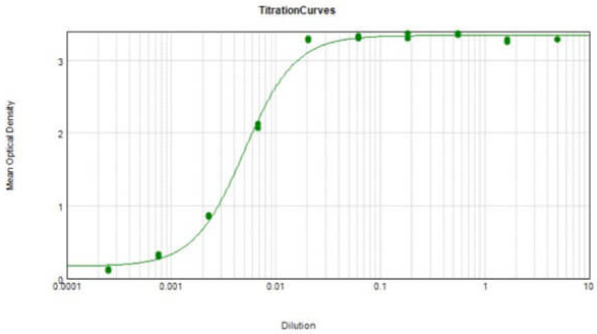
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution 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 Goat Anti-Human IgM Antibody Biotin Conjugated tested against purified Human IgM protein. Each well was coated in duplicate with 1.0 µg of Human IgM (p/n 009-0107). The working dilution of Human IgM Biotin Conjugated Antibody is 1:200,000. 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 Streptavidin Peroxidase Conjugated (p/n S000-03) and TMBE-1000 substrate.

References

- Jensen JMB et al. Isohemagglutinins exhibit synergistic polyreactivity toward Streptococcus pneumoniae surface antigens: implications for broad-spectrum reactivity of human antibodies. *Med Microbiol Immunol.* (2026)
- Petitdemange C et al. Vaccine induction of antibodies and tissue-resident CD8+ T cells enhances protection against mucosal SHIV-infection in young macaques. *JCI Insight.* (2019)

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