

Datasheet for 610-1107**Mouse IgM (mu chain) Antibody****Overview**

Description:	Goat Anti-Mouse IgM (mu chain) Antibody - 610-1107
Item No.:	610-1107
Size:	2 mg
Applications:	Dot Blot, ELISA, Other
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	Anti-Mouse IgM (mu chain) antibody generated in goat detects specifically mouse IgM (mu 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, 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) Antibody, Gt-a-Mouse (mu chain) antibody, Mouse IgM (mu chain) Antibody in goat, Goat anti-mouse IgM Secondary Antibody
Host Species:	Goat
Specificity:	IgM μ chain
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	Mouse IgM whole molecule

Purity/Specificity:	Anti-Mouse IgM (mu chain) was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgM coupled to agarose followed by solid phase adsorption(s). Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse IgM and Mouse Serum. No reaction was observed against other mouse heavy or light chain proteins.
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Application Details

Tested Applications:	Dot Blot, ELISA
Suggested Applications:	Other (Based on references)
Application Note:	Anti-Mouse IgM (mu chain) has been tested by ELISA, dot blot, and western blot and is suitable for immunoblotting (western or dot blot), ELISA, and immunohistochemistry assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,400 - 1:40,400
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

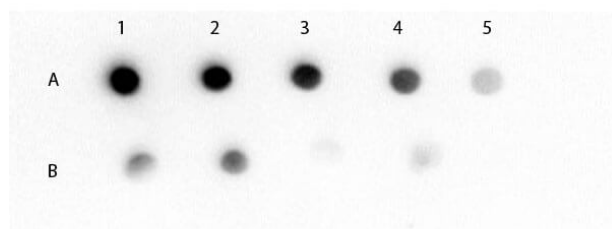
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.19 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

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Dot Blot

Dot Blot of Mouse IgM (mu chain) (GOAT) Antibody. Lane 1A: Mouse IgM (100 ng). Lane 1B: Mouse IgG (100 ng). Lanes 2-5: serial 3-fold dilution. Primary Antibody: Mouse IgM (mu chain) Antibody at 1 µg/mL at RT for 60 minutes. Secondary Antibody: Donkey Anti-Goat IgG Antibody HRP Conj'd (p/n 605-703-125) at 1;40,000 dilution of 1 mg/mL at RT for 30 minutes. Block: MB-070 at RT for 30 min.

References

- Fernando H Y Cesena et al. Immune-modulation by polyclonal IgM treatment reduces atherosclerosis in hypercholesterolemic apoE^{-/-} mice. *Atherosclerosis*. (2012)

Disclaimer

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