Datasheet for 617-103-007

Monkey IgM mu Antibody Peroxidase Conjugated

Overview

Description:	Goat Anti-Monkey IgM (mu chain) Antibody Peroxidase Conjugated - 617-103-007
Item No.:	617-103-007
Size:	1 mg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Monkey
Host Species:	Goat

Product Details

Background:	Anti-Monkey IgM (mu chain) peroxidase conjugated antibody generated in goat detects specifically Monkey 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-Monkey IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.
Synonyms:	Goat Anti-Monkey IgM Antibody peroxidase Conjugation, Goat Anti-Monkey IgM HRP Conjugated Antibody
Host Species:	Goat
Specificity:	IgM μ chain
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.465

Target Details

Reactivity:	Monkey

Immunogen Type:	Native Protein
Immunogen:	Monkey IgM whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Monkey 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, Monkey IgM and Monkey Serum. No reaction was observed against other Monkey heavy or light chain proteins.

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-Monkey IgM (mu chain) peroxidase conjugated antibody has been tested by ELISA, dot blot, and western blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic 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:	1:65,000 - 1:160,000
IHC:	1:500-1:2,500
WB:	1:1,000-1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	1 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

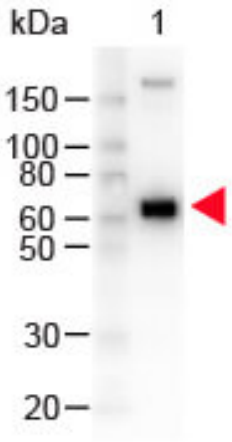
Shipping Condition:	Ambient

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

Product	Gt-a-Monkey IgG	Gt-a-Monkey IgA	Gt-a-Monkey IgM
Rhesus Serum	+	+	+
Baboon Serum	+	+	+
Cynomologus Serum	+	+	+
Rhesus IgG	+		
Human IgA		+	
Human IgM			+

Diagram
This table displays additional reactivity among various species of serum and immunoglobulin. A (+) indicates antibody reactivity to the corresponding target.



Western Blot
Western Blot of Peroxidase conjugated Goat anti-Monkey IgM mu antibody. Lane 1: Monkey IgM. Lane 2: none. Load: 100 ng per lane. Primary antibody: none. Secondary antibody: Peroxidase goat secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Observed size: 72 kDa for Rabbit IgG. Other band(s): none.

References

- Gu S et al. Elicitation of stem-directed antibodies in rhesus macaques by a conventional hemagglutinin immunogen. *bioRxiv [Preprint].* (2026)
- Otero CE et al. Rhesus Cytomegalovirus-encoded Fcγ-binding glycoproteins facilitate viral evasion from IgG-mediated humoral immunity. *Nat Commun.* (2025)
- Jauro S et al. Intravenous Bacillus Calmette-Guérin (BCG) Induces a More Potent Airway and Lung Immune Response than Intradermal BCG in Simian Immunodeficiency Virus-infected Macaques. *J Immunol.* (2024)
- Smith TJ. et al. Engineered IgM and IgG cleaving enzymes for mitigating antibody neutralization and complement activation in AAV gene transfer. *Mol Ther.* (2024)

Disclaimer

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