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Sheep IgM

Catalog # ASR2576

Product Information

Description	SHEEP IgM whole molecule
Conjugate	Unconjugated
Physical State	Liquid (sterile filtered)
Host Isotype	IgM
Buffer	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
Species of Origin	Sheep
Preservative	0.1% (w/v) Sodium Azide

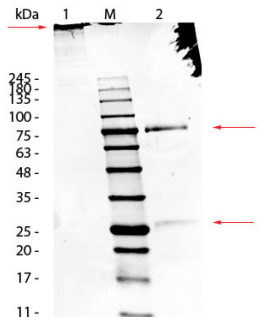
Additional Information

Shipping Condition	Wet Ice
Application Note	Sheep IgM whole molecule can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Sheep IgM whole molecule is stable at 4° C prior to restoration. It is recommended to aliquot restored Sheep IgM whole molecule after adding equal parts glycerol for storage at -20° C for extended storage and to prevent repeated freeze-thaw cycles.
Purity	Sheep IgM whole molecule was prepared from normal serum by a multi-step process which includes delipidation, selective precipitation and tandem molecular sieve chromatography followed by extensive dialysis against the buffer stated above. Sheep IgM whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Sheep Serum and anti-Sheep IgM (chain specific). No reaction was observed against anti-Sheep IgG F(c). Some light chain cross reactivity will occur with anti-Sheep IgG.
Storage Condition	Store vial at 4° C prior to opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

Background

Immunoglobulin M is the largest antibody isotype and the first to be secrected against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approixmate 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.

Images



SDS-Page of Sheep IgM Whole Molecule. Lane 1: Sheep IgM, Non-Reduced. Lane 2: Sheep IgM, Reduced. Load: 1.0 µg per lane. Predicted/Observed size-Predicted/Observed size - Non-Reduced: 900 kDa (Pentamer), 900 kDa (Molecule larger than can pass through gel), Reduced: 78 and 25 kDa, 75 and 25 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.