10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Chicken IgM

Catalog # ASR2896

Product Information

Description	CHICKEN 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	Chicken
Preservative	0.1% (w/v) Sodium Azide

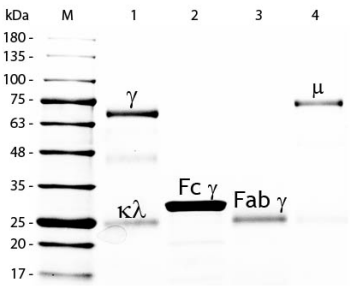
Additional Information

Shipping Condition	Wet Ice
Application Note	Chicken IgM whole molecule can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.
Purity	Chicken 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. Chicken IgM whole molecule assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Chicken Serum and anti-Chicken IgM (chain specific). No reaction was observed against anti-Chicken IgG F(c). Some light chain cross reactivity will occur with anti-Chicken IgG. Analysis by SDS-PAGE was used to show purity at greater than 95%. Some high molecular weight banding may be visible. A minor band at ~50 kDa may also be visible.
Storage Condition	Store vial at 4° C prior to restoration. Restore with 1.0 mL of deionized water (or equivalent). 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. Chicken IgM whole molecule is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
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 Chicken IgM Whole Molecule (p/n ASR2896). Lane M: 5 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Chicken IgG Whole Molecule (p/n 003-0102). Lane 2: Reduced Chicken IgG F(c) Fragment (p/n 003-0103). Lane 3: Reduced Chicken IgG F(ab) Fragment (p/n 003-0105). Lane 4: Reduced Chicken IgM Whole Molecule (p/n ASR2896). Load: 1 µg per lane. Predicted/Observed size: IgG at 72 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 75 kDa. Observed F(c) Fragment migrates slightly higher. Other bands: Chicken IgG heavy chain alternative splicing variant at approximately 40 kDa in Lane 1.

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