

Product Data Sheet

Normal/Control Monkey IgM

Cat #20013-1

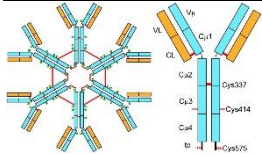
Monkey Serum IgM (Rhesus, non-immune), purified

Size: □ 50 ug

Cat #20013-1-B

Monkey Serum IgM-biotin conjugate (Rhesus, non-immune), purified

Size: □ 25 ug



Immunoglobulin M (IgM) is a basic antibody that is produced by B cells. IgM is by far the physically largest antibody in the human circulatory system. It is the first antibody to appear in response to initial exposure to an antigen. IgM is produced and secreted from spleen, a major site for B cell activity. IgM forms polymers where multiple immunoglobulins are covalently linked together with disulfide bonds, mostly as a pentamer (970 kda) but also as a hexamer. Because each monomer has two antigen binding sites, a pentameric IgM has 10 binding sites. The J chain is found in pentameric IgM but not in the hexameric form. Due to its polymeric nature, IgM possesses high avidity, and is particularly effective at complement activation. It contributes greatly to opsonization by activating complement and causing C3b to bind to the antigen. IgM normal plasma concentration ~1-4 mg/ml. Low levels of IgM are associated with Wiskott-Aldrich syndrome.

A healthy non-immunized population of monkey (Rhesus) was used to collect serum. **IgM** was prepared by ammonium sulfate, and column chromatography, and selective precipitation. The resulting preparation was judged to be >95% pure by IEP (single arc against anti-monkey serum) and SDS-Page.

Form and Storage

The normal monkey IgM is provided as 100 ug/100 ul (1 mg/ml) solution as liquid (0.125M Sodium borate, pH 8.00, 0.075 NaCl, 0.005M EDTA buffer, and 0.01% (w/v) sodium azide as preservative) or in lyophilized form. The product should be **stored at 4°C** for short term and – 20oC for long term storage. It is stable for a minimum of 1 year. Do not store diluted solutions. Sodium azide, an inhibitor of peroxidase, must be avoided if used with antibody-HRP conjugates.

The **lyophilized products** should be dissolved in water (add 200 ul to prepare 100 ug/200 ul or 0.5 mg/ml) by gentle rocking or vortexing at room temperature. It is possible to make the stock solution in water to a desired stock solution (e.g., 1 mg/ml). Centrifuge the solution briefly (10,000 g, 15 min at 4oC) to remove any particulate matter. It should be aliquoted and stored frozen for long term use.

Suggested Uses

This preparation of normal monkey IgM is suitable for coating the ELISA plates or as a non-immune control for ELISA, dot blot, Western or IHC. Recommended testing concn. is approx. 1-10 ug/ml. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts and may give slightly higher background. Switching to another preparation from different monkey or vendor may alleviate this problem.

Country of Origin: USA

This product is for in vitro research use only.

Related Items available from ADI

Catalog#	ProdDescription
20018-B conjugate	Monkey IgG (Cynomolgous, non-immune)-Biotin
20012-F conjugate	Monkey IgG (Rhesus, Whole, non-immune)-FITC
20012-B conjugate	Monkey IgG (Rhesus, Whole, non-immune)-Biotin
20012-HP conjugate	Monkey IgG (Rhesus, Whole, non-immune)-HRP
70020	Anti-Monkey IgG (H+L)-HRP conjugate
70330	Anti-Monkey IgG (H+L)-FITC conjugate
20012-1 purified	Monkey IgG (Rhesus, non-immune, isotype control), purified
20018-1 control), purified	Monkey IgG (Cynomolgous, non-immune, isotype control), purified
MKUL-4569	Monkey Adult Tissues Protein lysate, Universal
70021 conjugate	Anti-Monkey IgG (gamma-chain specific)-HRP conjugate
70022 Phosphatase conjugate	Anti-Monkey IgG (gamma-chain specific)-Alk. Phosphatase conjugate
70023	Anti-Monkey IgG (gamma-chain specific) unlabeled
70024	Anti-Monkey IgG (H+L)-Alk, Phosphatase conjugate
70028	Anti-Monkey IgG (gamma chain sp)-Biotin conjugate
70029	Anti-Monkey IgG (H+L)-Biotin conjugate
70032 conjugate	Anti-Monkey IgM (mu-chain specific)-Alk. Phosphatase conjugate
70033	Anti-Monkey IgM (mu-chain specific) unlabeled
70035	Anti-Monkey IgM (mu chain sp.)-FITC conjugate
70039	Anti-Monkey IgM (mu chain sp)-Biotin conjugate
70041	Anti-Monkey IgA (alpha-chain specific)-HRP conjugate
70043	Anti-Monkey IgA (alpha-chain specific), unlabeled
70045	Anti-Monkey IgA (alpha chain sp.)-FITC conjugate
70049	Anti-Monkey IgA (alpha chain sp)-Biotin conjugate
70010	Anti-Monkey IgG (H+L) aff pure, unlabeled
70030-M	Monoclonal Anti-Monkey IgG (heavy chain sp) IgG (specific for monkey; no reactivity with human or animals IgG)

20013-1-Monkey-IgM 151228SV

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