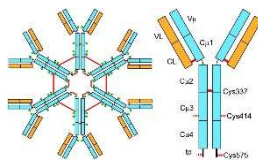


Product Data Sheet

Cat # 20017-2-1

Normal/Control Pig (swine) serum IgM, purified

Size: 0.5 mg



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 Pig (swine) was used to collect serum. This product 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. Assay by immune-electrophoresis resulted in a single precipitin arc against anti-Pig (swine) Serum and anti-Pig (swine) IgM (μ chain specific). No reaction was observed against anti-Pig (swine) IgG F(c). Some light chain cross reactivity will occur with anti-Pig (swine) Pig IgG).

Form and Storage

The IgM is provided as liquid (1 mg/ml in 0.1M Tris pH 7.4, 0.5 M NaCl or in lyophilized in the same buffer. The product should be **stored at 4°C** for short term and **-20°C** for long-term storage. It is stable for a minimum of 1 year. Do not store diluted solutions.

The **lyophilized products** should be dissolved in water, to prepare desired concentration by gentle rocking or vortexing at room temperature. Centrifuge the solution briefly (10,000 g, 15 min) to remove any particulate matter. It should be aliquoted and stored frozen for long-term use.

Suggested Uses

This preparation of 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 mouse or vendor may alleviate this problem.

This product is for in vitro research use only.

Related Items available from ADI

Catalog#	Prod Description
50325	Anti-G. Pig (H+L)-HRP conjugate
50330	Anti-G. Pig IgG (H+L)-FITC conjugate
20004-1 control)	G. Pig IgG, purified (non-immune, serum, Isotype control)
80171	G. Pig Serum Antibody detection ELISA kit, Qualitative
PEN-P6	Antigen-Antibody Pen For G. Pig Primary antibodies
50355	Anti-G. Pig IgG (H+L)-Alk. Phosphatase conjugate
50240	Anti-G. Pig IgG (Fc)-Biotin conjugate
90340	Anti-Pig IgG (H+L)-Biotin conjugate (Swine-Porcine)
80186	Pig Serum Antibody detection ELISA kit, Qualitative
9000	Pig Albumin ELISA Kit, 96 tests, Quantitative
600-360-CFP	Pig Cardiac Fatty acid binding protein (FABP) ELISA kit
ALBGP18-S	Anti-G. pig Serum Albumin protein antiserum
90320	Anti-Pig IgG (H+L)-HRP conjugate (swine/porcine)
90325	Anti-Pig IgG (H+L), aff pure, unlabeled (Swine-Porcine)
50324	Anti-G. Pig (H+L) IgG, aff pure
50329	Anti-G. Pig (H+L) IgG-Biotin conjugate
50219	Anti-G. Pig IgG (Fc), unlabeled, aff pure
50220	Anti-G. Pig IgG (Fc)-HRP conjugate
50230	Anti-G. Pig IgG (Fc)-FITC conjugate
90330	Anti-Pig IgG (H+L)-FITC conjugate (Swine-Porcine)
90419	Anti-Pig IgG (Fc), aff pure, unlabeled (Swine-Porcine)
90420	Anti-Pig IgG (Fc)-HRP Conjugate (Swine-Porcine)
90430	Anti-Pig IgG (Fc)-FITC Conjugate (Swine-Porcine)
90440	Anti-Pig IgG (Fc)-Biotin Conjugate (Swine-Porcine)

20017-2-1-Pig-IgM

151222SV

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com