

SM3063HRP**Monoclonal Antibody to Human IgM (Fc specific) - HRP**

Alternate names:	Human Immunoglobulin M
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Immunoglobulin M (IgM) is produced as a 900 kDa pentamer, which is an efficient complement binder. This antibody type is produced initially in the immune response and it is the first immunoglobulin class to be synthesized by a fetus or newborn. IgM antibodies do not cross the placenta. IgM concentration in blood is 0.12 g/l and its biological survival (plasma T1/2) is 5 days.
Host / Isotype:	Mouse / IgG1
Clone:	CH2
Immunogen:	Purified human IgM
Format:	State: Liquid purified Ig fraction Buffer System: Phosphate buffered saline (PBS) solution containing 0.01% (w/v) thimerosal Label: HRP – Conjugated with Horseradish Peroxidase of high specific activity and RZ=3.
Applications:	Western blot: 4 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Fc fragment of human IgM. Other species not tested.
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General Readings:	1. Franklin EC. Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95. PubMed PMID: 47690. 2. Fuller JM, Keyser JW. Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71. PubMed PMID: 1122610. 3. Balogh Z, Merétey K, Falus A, Bozsóky S. Serological abnormalities in juvenile chronic arthritis: a review of 46 cases. Ann Rheum Dis. 1980 Apr;39(2):129-34. PubMed PMID: 6966908. 4. Brinkmann V, Heusser CH. T cell-dependent differentiation of human B cells into IgM, IgG, IgA, or IgE plasma cells: high rate of antibody production by IgE plasma cells, but limited clonal expansion of IgE precursors. Cell Immunol. 1993 Dec;152(2):323-32. PubMed PMID: 8258141.

Pictures:

Surface staining of human peripheral blood cells with anti-human IgM (CH2) APC. Cells in the lymphocyte gate were used for analysis.

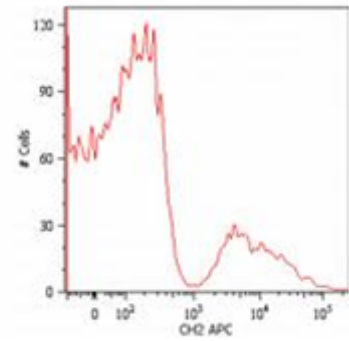
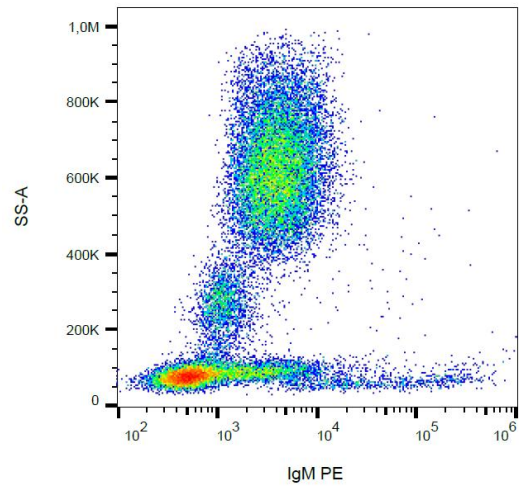
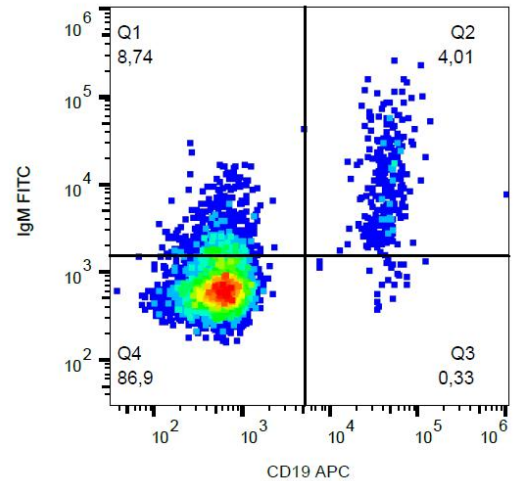


Fig. 1. Flow Cytometry analysis

Surface staining of human peripheral blood cells with anti-human IgM (CH2) PE.



Surface staining of human peripheral blood cells with anti-human IgM (CH2) FITC.



Surface staining of human peripheral blood cells with anti-human IgM (CH2) PerCP-Cy5.5.

