EXBIO
Antibodies

PRODUCT DATA SHEET

T8-320-C100

Monoclonal Antibody to IgM PE-Cy™5 conjugated (0.1 mg)

Clone:	CH2
Isotype:	Mouse IgG1
Specificity:	The antibody CH2 reacts with Fc fragment of human IgM.
Regulatory Status:	RUO
Immunogen:	Purified human IgM.
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with tandem dye PE-Cy™5 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.1 mg/ml
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry.
Expiration:	See vial label
Lot Number:	See vial label
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.
References:	*Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95. *Fuller JM, Keyser JW: Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71. *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. *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.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz