TECHNICAL DATA SHEET

CyFlow™ IgM Alexa Fluor™ 700
Anti-Hu; Clone CH2

REF **CT524570**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	IgM
Alternative Names	—
Clone	CH2
Clonality	monoclonal
Format	Alexa Fluor™ 700
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Purified human IgM

Specificity

The mouse monoclonal antibody CH2 recognizes Fc fragment of human immunoglobulin M (IgM).

Contact Information:

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Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 0.5 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.
Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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. < PMID: 47690 >
- Fuller JM, Keyser JW: Serum immunoglobulins after surgical operation. Clin Chem. 1975 May; 21(6):667-71. < PMID: 1122610 >
- 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. < PMID: 6966908 >
- 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. < PMID: 8258141 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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