

TECHNICAL DATA SHEET

CyFlow™ IgM Purified Anti-Hu; Clone CH2

REF CY755861

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	IgM
Alternative Names	—
Clone	CH2
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Purified human IgM

Specificity

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

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunocytochemistry
- Enzyme-linked immunosorbent assay

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 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 >

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

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