



A7-320-C100

## Monoclonal Antibody to IgM Alexa Fluor® 700 conjugated (0.1 mg)

|                             |  |
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| <b>Clone:</b>               | CH2  |
| <b>Isotype:</b>             | Mouse IgG1   |
| <b>Specificity:</b>         | The antibody CH2 reacts with Fc fragment of human IgM.   |
| <b>Regulatory Status:</b>   | RUO  |
| <b>Immunogen:</b>           | Purified human IgM.  |
| <b>Species Reactivity:</b>  | Human  |
| <b>Preparation:</b>         | The purified antibody is conjugated with Alexa Fluor® 700 under optimum conditions. The conjugate is purified by size-exclusion chromatography.  |
| <b>Concentration:</b>       | 0.1 mg/ml  |
| <b>Storage Buffer:</b>      | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.  |
| <b>Storage / Stability:</b> | 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.  |
| <b>Usage:</b>               | The reagent is designed for Flow Cytometry analysis.<br>Suggested working concentration is 1.5 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.   |
| <b>Expiration:</b>          | See vial label   |
| <b>Lot Number:</b>          | See vial label   |
| <b>Background:</b>          | 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.   |
| <b>References:</b>          | *Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95.<br>*Fuller JM, Keyser JW: Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71.<br>*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.<br>*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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**Antibodies**

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