



BMA BIOMEDICALS

Monoclonal Antibody To Human Ferritin Marker For A Subpopulation Of Inflammatory Leukocytes

Monoclonal antibody mAb 44 recognizes ferritin, one of the major non-heme iron storage proteins. It consists of a mineral core of hydrated ferric oxide, and a multi-subunit protein shell which englobes the former and assures its solubility in an aqueous environment. It is mainly localized intracellularly in cells of the reticuloendothelial system as well as in liver, spleen and bone marrow. Elevated serum levels are found in patients with iron overload and in other diseases such as pernicious anaemia, chronic inflammations such as rheumatoid arthritis (RA), hepatocellular carcinoma and Hodgkin's disease.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1320 (Lot 02PO0212)
Clone:	mAb 44
Host species, isotype:	Mouse IgG1
Quantity:	200µg
Format:	Affinity purified, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Thimerosal as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: 0.5µg/ml (1:800) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil. Please see www.bma.ch for protocols and general information.
Immunogen:	Ferritin from human spleen and liver
Protein database:	<u>human-P02792</u>

Antigen, epitope:

Ferritin consists of two components, the apoferritin and the iron core (Fe^{III} - hydroxyphosphate-micelle). The apoferritin is a globular protein built up of 24 subunits that can bind up to 4500 iron atoms. Other non-ferrous metal ions such as Al or Be can also bind to ferritin, which acts partly as a metal ion detoxicant.

Selected references

Gold, P., Freeman, S.O. : Demonstration of tumor-specific antigens in human colonic carcinoma by immunological tolerance and absorption techniques. J. Exp Med **121**: 439 (1965).

For in vitro research only. This product contains Thimerosal as a preservative.