



Peninsula Laboratories, LLC

A Member of the Bachem Group

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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.

Product Number:	T-1320
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), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in ELISA. 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.
Immunogen:	Ferritin from human spleen and liver.
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.



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Selected references

Crichton, R.R. : New Engl. J. Med. 284: 1413 (1971)

Jacobs, A., et al., New Engl. J. Med. 292: 951 (1975)

Hann, H.-W.L. et al., Int. J. Cancer 43:376 (1989)

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.