

Product datasheet for **AM00840PU-N**

Ferritin (heavy and light chain) Mouse Monoclonal Antibody [Clone ID: 057-10010]

Product data:

Product Type:	Primary Antibodies
Clone Name:	057-10010
Applications:	ELISA
Recommended Dilution:	ELISA. <u>Recommended Pairs for Sandwich Immunoassay</u> Capture/Detection: AM00839PU-N / AM00840PU-N AM24001PU-N / AM00840PU-N
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Ferritin isolated from Human liver
Specificity:	This antibody recognizes Ferritin.
Formulation:	10mM Phosphate, pH 7.4 containing 150mM Sodium Chloride and 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction (>90% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Protein A Chromatography. Product is 0.2µm filtered.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one week or (in aliquots) at -40°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Ferritin is a ubiquitous and highly conserved protein which plays a major role in iron homeostasis by sequestering and storing iron in a non-toxic and soluble form. It forms a holoenzyme of ~450 kDa, consisting of 24 subunits of two types, H (heavy; 21 kDa) and L (light; 19 kDa), and is capable of storing up to 4,500 atoms of ferric iron. Depending on the tissue type and physiological status of the cell, the ratio of H to L subunits in ferritin can vary widely. Ferritin is found in the liver, spleen, kidney and heart, with smaller amounts being found in blood. Serum ferritin levels serve as an indicator of the amount of iron stored in the body. Serum ferritin is the most sensitive test for anaemia, and is also used as a marker for restless leg syndrome, hemochromatosis and porphyria. As ferritin is an acute-phase reactant, it is often elevated during infection. Defects in ferritin proteins are associated with several neurodegenerative diseases.

Synonyms:

FTH, FTL, Ferritin H subunit, Ferritin L subunit