

AM00840PU-N

Monoclonal Antibody to Ferritin (heavy and light chain) - Purified

Alternate names:	FTH, FTL, Ferritin H subunit, Ferritin L subunit
Quantity:	1 mg
Concentration:	4.37 mg/ml (OD280nm, E0.1% = 1.4)
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.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	057-10010
Immunogen:	Ferritin isolated from Human liver
Format:	State: Liquid purified IgG fraction (>90% pure by SDS-PAGE). Purification: Protein A Chromatography. Product is 0.2µm filtered. Buffer System: 10mM Phosphate, pH 7.4 containing 150mM Sodium Chloride and 0.09% Sodium Azide as preservative.
Applications:	ELISA. <u>Recommended Pairs for Sandwich Immunoassay</u> Capture/Detection: AM00839PU-N / AM00840PU-N AM24001PU-N / AM00840PU-N Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes Ferritin. Species: Human. Other species not tested. Affinity Constant: 5 x 10 ⁹ L/m
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. Shelf life: one year from despatch.