

AP05977SU-N**Polyclonal Antibody to Ferritin (Liver) - Purified****Alternate names:**

FTH, FTL, Ferritin H subunit, Ferritin L subunit

Quantity:

1 mg

Concentration:

5.0 mg/ml

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:

Goat / IgG

Immunogen:

Human Liver Ferritin

Format:**State:** Liquid purified IgG**Purification:** Affinity chromatography**Buffer System:** Phosphate buffered saline, pH7.2 containing 0.09% Sodium Azide (NaN₃)**Applications:**

ELISA.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognises ferritin, a large globular protein found in the liver, intestines and spleen that functions as an iron storage complex. It consists of a mineral core of ferric oxide and a 24 subunit protein shell that assures solubility in an aqueous environment.

This antibody recognises liver and spleen ferritin, but shows minimal reactivity with heart ferritin.

Species: Human.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Caution:

(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.