

**Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated**  
**Ferritin Antibody Peroxidase Conjugated**  
**Catalog # ASR4509****Specification****Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Product Information**

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Ferritin (Human Spleen) Peroxidase Antibody has been tested by ELISA and western blot. This product is assayed against 1.0 µg of Ferritin [Human Spleen] in a standard capture ELISA using ABTS (2, 2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:12,000 to 1:60,000 of the reconstitution concentration is suggested for Anti-Ferritin (Human Spleen) Antibody.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Ferritin [Human Spleen]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Additional Information****Gene ID 2495****Other Names**  
2495**Purity**

Anti-Ferritin (Human Spleen) Antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit

Serum as well as purified and partially purified Ferritin [Human Spleen]. Cross reactivity against Ferritin from other sources is unknown.

**Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Protein Information**

**Name** FTH1

**Synonyms** FTH, FTHL6

**Function**

Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity (PubMed:<a href="http://www.uniprot.org/citations/9003196" target="\_blank">9003196</a>). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:<a href="http://www.uniprot.org/citations/9003196" target="\_blank">9003196</a>). Also plays a role in delivery of iron to cells (By similarity). Mediates iron uptake in capsule cells of the developing kidney (By similarity). Delivery to lysosomes is mediated by the cargo receptor NCOA4 for autophagic degradation and release of iron (PubMed:<a href="http://www.uniprot.org/citations/24695223" target="\_blank">24695223</a>, PubMed:<a href="http://www.uniprot.org/citations/26436293" target="\_blank">26436293</a>).

**Cellular Location**

Cytoplasm. Lysosome. Cytoplasmic vesicle, autophagosome

**Tissue Location**

Expressed in the liver.

**Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Images****Anti-FERRITIN (Human Spleen) (RABBIT) Antibody Peroxidase Conjugated - Background**

Ferritin is a intracellular protein that directly stores iron and regulates its release, specifically acting as a buffer for iron in humans. Ferritin is composed of 24 subunits and comes in two types, H and L. The H subunit detoxifies iron while the L subunit deals with long term storage of iron. Depending on the concentration of ferritin in the blood, different disorders and diseases could be present in an individual.

Anti-Ferritin (Human Spleen) Antibody is ideal for investigators in Cancer, Immunology, and Cardiovascular Research.