

**Anti-FERRITIN (RABBIT) Antibody Biotin Conjugated**  
**Ferritin Antibody Biotin Conjugated**  
**Catalog # ASR4535****Specification****Anti-FERRITIN (RABBIT) Antibody Biotin Conjugated - Product Information**

Host	Rabbit
Conjugate	Biotin
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Ferritin Biotin antibody has been tested by western blot and is suitable for ELISA and Immunohistochemistry. Expect band at 21.2 kDa in appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
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) Sodium Azide

**Anti-FERRITIN (RABBIT) Antibody Biotin Conjugated - Additional Information****Gene ID** 2495**Other Names**

2495

**Purity**

Anti-Ferritin 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-Biotin, anti-Rabbit Serum as well as purified and partially purified Ferritin [Human Spleen]. Cross reactivity against Ferritin from other sources may occur but has not been specifically determined.

**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 (RABBIT) Antibody Biotin 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 (RABBIT) Antibody Biotin 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 (RABBIT) Antibody Biotin Conjugated - Images****Anti-FERRITIN (RABBIT) Antibody Biotin Conjugated - Background**

Ferritin Antibody detects human ferritin. Ferritin is a ubiquitous intracellular protein that stores iron and releases it in a controlled fashion. The amount of ferritin stored reflects the amount of iron stored. The protein is produced by almost all living organisms, including algae, bacteria, higher plants, and animals. In humans, it acts as a buffer against iron deficiency and iron overload. Ferritin is a globular protein complex consisting of 24 protein subunits and is the primary intracellular iron-storage protein in both prokaryotes and eukaryotes, keeping iron in a soluble and non-toxic form. Ferritin that is not combined with iron is called apoferritin.

Anti-Ferritin antibody is ideal for investigators involved in enzyme and ubiquitin and UBL research.