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Datasheet for 200-406-090

Ferritin Antibody Biotin Conjugated

Overview

Description:	Anti-Ferritin (RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-406-090
Item No.:	200-406-090
Size:	10 mg
Applications:	WB, Biochemical Assay, Microarray
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-Ferritin Antibody Biotin Conjugation, biotin conjugated rabbit anti-Ferritin Antibody, FTH, FTHL6
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	FTH1
Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Ferritin [Human Spleen]
Purity/Specificity:	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.
Relevant Links:	• NCBI - AAH66341.1 • UniProtKB - P02794 • GeneID - 2495

Application Details

Tested Applications:	WB
Suggested Applications:	Biochemical Assay, Microarray (Based on references)
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	User Optimized
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Yap BK et al. Potential point-of-care microfluidic devices to diagnose iron deficiency anemia. *Sensors (Basel).* (2018)

Disclaimer

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