Datasheet for ABIN2785803

anti-FTH1 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	FTH1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Sheep, Dog, Rabbit, Horse, Guinea Pig, Cow, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FTH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human FTH1
Sequence:	NVNQSLLELH KLATDKNDPH LCDFIETHYL NEQVKAIKEL GDHVTNLRKM
Predicted Reactivity:	Cow: 93%, Dog: 100%, Goat: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 93%
Characteristics:	This is a rabbit polyclonal antibody against FTH1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	FTH1

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Target Details

Alternative Name:	FTH1 (FTH1 Products)
Background:	FTH1 is the heavy subunit of ferritin, the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases. This gene encodes the heavy subunit of ferritin, the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases. This gene has multiple pseudogenes. Several alternatively spliced transcript variants have been observed, but their biological validity has not been determined. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: FTH, FTHL6, MGC104426, PIG15, PLIF, FHC Protein Interaction Partner: SDCBP, FTL, FTH1, WDYHV1, CEP57, AURKB, TP53, AURKA, ASB15, ASB16, SUPT16H, SET, MAPK9, MAX, IGSF8, TICAM2, HCVgp1, PIAS4, CDC16, YWHAE, SOX5, MYL3, LBP, KPNA2, GRB2, DAXX, CSNK2B, CDC25A, ATP6V1B1, CD99, SPP1, TRAF4, SUMO2, UBC, Cep55, Trim28, NR1I3, NR3 Protein Size: 183
Molecular Weight:	21 kDa
Gene ID:	2495
NCBI Accession:	NM_002032, NP_002023
UniProt:	P02794
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 183 AA
Restrictions:	For Research Use only

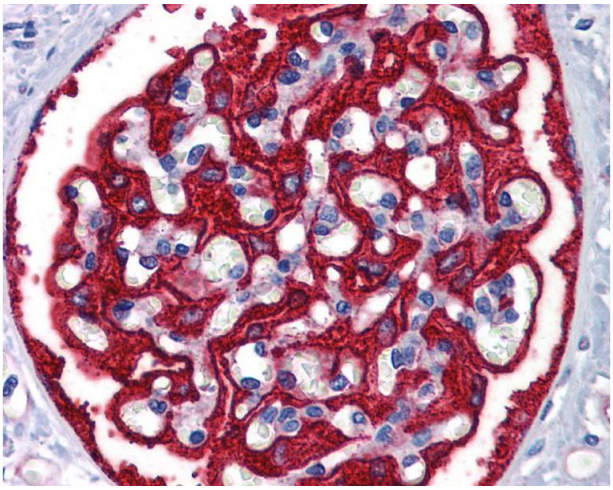
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Potrykus, Stead, Maccallum, Urgast, Raab, van Rooijen, Feldmann, Brown: "Fungal iron availability during deep seated candidiasis is defined by a complex interplay involving systemic and local events." in: **PLoS pathogens**, Vol. 9, Issue 10, pp. e1003676, (2013) (PubMed).

Images



Immunohistochemistry

Image 1.