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FTMT Recombinant Rabbit mAb

Catalog # AP98651

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8N4E7
Other Accession	Q8N4E7
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	27538
Physical State	Liquid
Immunogen	A synthesized peptide derived from human FTMT
Epitope Specificity	200-242/242
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the ferritin family. {ECO:0000305}.Contains 1 ferritin-like diiron domain.
SUBUNIT	Homooligomer of 24 subunits. The functional molecule is roughly spherical and contains a central cavity into which the polymeric mineral iron core is deposited.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Catalyzes the oxidation of ferrous iron(II) to ferric iron(III) and stores iron in a soluble, non-toxic, readily available form.

Additional Information

Gene ID	94033
Other Names	MTF; FTMT_HUMAN; FTMT; 1.16.3.1; ferritin mitochondrial; mitochondrial ferritin
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FTMT (HGNC:17345)

Function	Catalyzes the oxidation of ferrous iron(II) to ferric iron(III) and stores iron in a soluble, non-toxic, readily available form (PubMed:11323407, PubMed:15201052). Important for iron homeostasis (PubMed:11323407, PubMed:15201052). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:11323407, PubMed:15201052).
Cellular Location	Mitochondrion.
Tissue Location	Detected in testis and erythroleukemia. Expression is very low or not detectable in brain, colon, heart, kidney, liver, lung, muscle, placental, spleen and small intestine

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.