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MFRN2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5244a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96A46
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26404
Calculated MW	39272
Antigen Region	36-64

Additional Information

Gene ID	81894
Other Names	Mitoferrin-2, Mitochondrial RNA-splicing protein 3/4 homolog, MRS3/4, hMRS3/4, Mitochondrial iron transporter 2, Solute carrier family 25 member 28, SLC25A28, MFRN2
Target/Specificity	This MFRN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-64 amino acids from the N-terminal region of human MFRN2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MFRN2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC25A28
Synonyms	MFRN2

Function	Mitochondrial iron transporter that mediates iron uptake. Probably required for heme synthesis of hemoproteins and Fe-S cluster assembly in non-erythroid cells.
Cellular Location	[Isoform 1]: Mitochondrion inner membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous. Expressed in placenta, lung, kidney, pancreas, liver, brain, skeletal muscle and heart

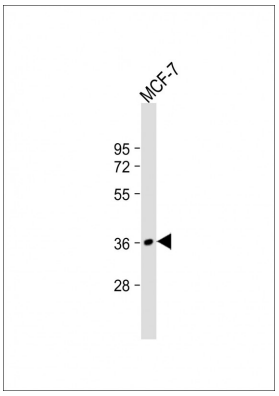
Background

MFRN2 is mitochondrial iron transporter that mediates iron uptake. It is probably required for heme synthesis of hemoproteins and Fe-S cluster assembly in non-erythroid cells. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme.

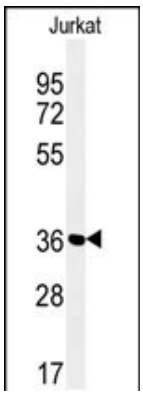
References

Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Deloukas, P., et al. Nature 429(6990):375-381(2004)
Wistow, G., et al. Mol. Vis. 8, 185-195 (2002)

Images

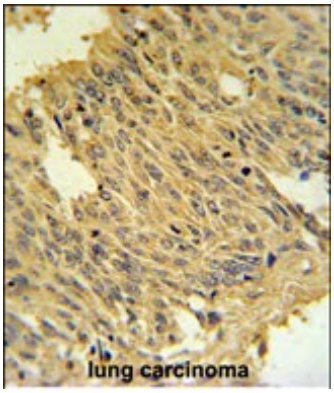


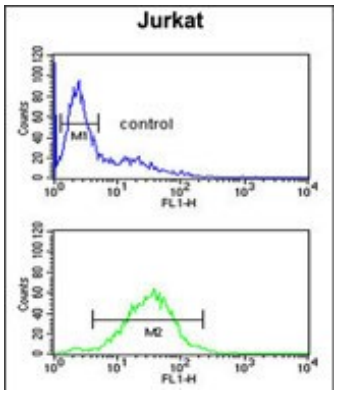
Anti-MFRN2 Antibody (N-term) at 1:2000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of MFRN2 Antibody (N-term) (Cat. #AP5244a) in Jurkat cell line lysates (35ug/lane).MFRN2 (arrow) was detected using the purified Pab.

MFRN2 Antibody (N-term) (Cat. #AP5244a) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MFRN2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.





MFRN2 Antibody (N-term) (Cat. #AP5244a) flow cytometric analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.