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MFRN2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5588

Product Information

Application	FC, IHC-P, WB
Primary Accession	Q96A46
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39272
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	81894
Antigen Region	36-64
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
Dilution	FC~~1:10~50 IHC-P~~1:100~500 WB~~1:2000
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.
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

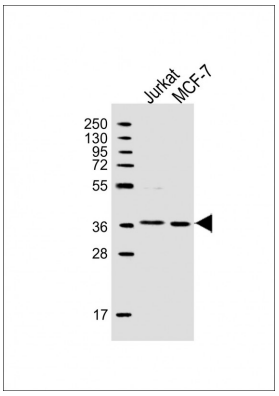
Background

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.

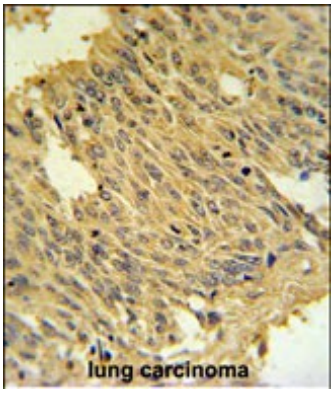
References

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

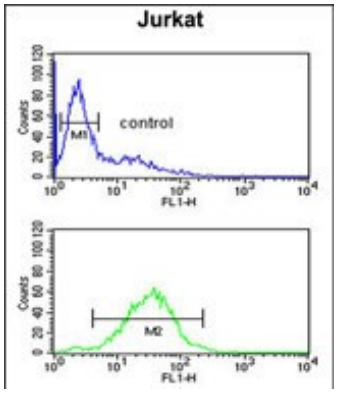


All lanes : Anti-MFRN2 Antibody (N-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



MFRN2 Antibody (N-term) (Cat. #AW5588) 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. #AW5588) 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.



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