10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MCART1 Rabbit pAb

Catalog # AP98018

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H1U9
Other Accession	Q9H1U9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33672
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MCART1
Epitope Specificity	61-160/297
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the mitochondrial carrier family. Contains 3 Solcar repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MCARTs (mitochondrial carrier triple repeat protein) are mitochondrial multipass inner membrane proteins that contain three solcar repeats, which are typical of substrate carrier proteins involved in energy transfer.

Additional Information

Gene ID	92014
Other Names	CG7943; MCART1; 9130208E07Rik; D130005A03Rik; Gm138; S2551_HUMAN; SLC25A51; Mitochondrial NAD(+) transporter SLC25A51; Mitochondrial carrier triple repeat protein 1; Solute carrier family 25 member 51; S2551_MOUSE; mitochondrial carrier triple repeat 1; solute carrier family 25, member 51; mitochondrial NAD+ transporter
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	SLC25A51 {ECO:0000303|PubMed:32906142, ECO:0000312|HGNC:HGNC:23323}

Function	Mitochondrial membrane carrier protein that mediates the import of NAD(+) into mitochondria (PubMed:32906142, PubMed:33087354, PubMed:33262325). Mitochondrial NAD(+) is required for glycolysis and mitochondrial respiration (PubMed:32906142, PubMed:33087354, PubMed:33262325). Compared to SLC25A52, SLC25A51-mediated transport is essential for the import of NAD(+) in mitochondria (PubMed:32906142). The transport mechanism, uniport or antiport, its electrogenicity and substrate selectivity, remain to be elucidated.
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein

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