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MRS2 Rabbit pAb

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Catalog # AP56855

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9HD23
Reactivity	Rat, Mouse
Predicted	Pig, Cat, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50318
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MRS2
Epitope Specificity	201-300/443
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion inner membrane; Multi-pass membrane protein (by similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MRS2 is a magnesium transporter that may mediate the influx of magnesium into the mitochondrial matrix. There are 3 isoforms produced by alternative splicing.

Additional Information

Gene ID	57380
Other Names	Magnesium transporter MRS2 homolog, mitochondrial, MRS2-like protein, MRS2, HPT, MRS2L
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

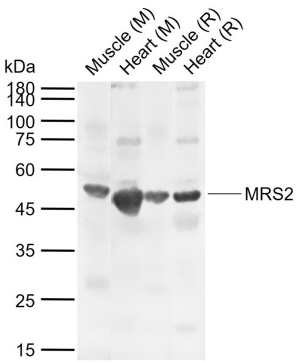
Name	MRS2
Synonyms	HPT, MRS2L

Function	Magnesium transporter that mediates the influx of magnesium into the mitochondrial matrix and regulates magnesium metabolism (PubMed:11401429, PubMed:18384665, PubMed:37543649, PubMed:37938562, PubMed:39609651). Also permeable to calcium, sodium and potassium ions (PubMed:39609651). Required for normal expression of the mitochondrial respiratory complex I subunits (PubMed:18384665). May play a role in maintaining the inner mitochondrial membrane potential (PubMed:39609651).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein

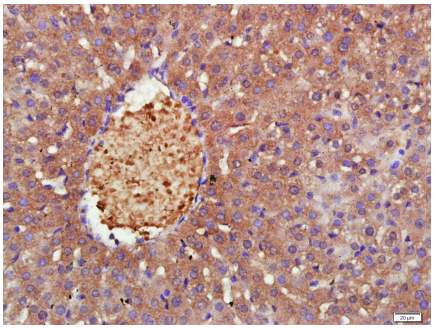
Background

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Images



Sample:
Lane 1: Mouse Muscle tissue lysates
Lane 2: Mouse Heart tissue lysates
Lane 3: Rat Muscle tissue lysates
Lane 4: Rat Heart tissue lysates
Primary: Anti-MRS2 (AP56855) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 50 kDa
Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MRS2) Polyclonal Antibody, Unconjugated (AP56855) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

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