

SMCR7 Rabbit pAb

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Catalog # AP54912

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96C03
Reactivity	Mouse
Predicted	Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49269
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SMCR7
Epitope Specificity	201-300/454
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 outer membrane; Single-pass membrane protein. Colocalizes with DNM1L at mitochondrial membrane. Forms foci and rings around mitochondria.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an outer mitochondrial membrane protein that functions in the regulation of mitochondrial morphology. It can directly recruit the fission mediator dynamin-related protein 1 (Drp1) to the mitochondrial surface. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011]

Additional Information

Gene ID	125170
Other Names	Mitochondrial dynamics protein MID49, Mitochondrial dynamics protein of 49 kDa, Mitochondrial elongation factor 2, Smith-Magenis syndrome chromosomal region candidate gene 7 protein, MIEF2, MID49, SMCR7
Dilution	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.

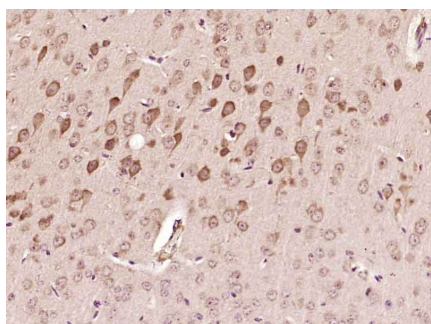
Protein Information

Name	MIEF2
Synonyms	MID49, SMCR7
Function	Mitochondrial outer membrane protein involved in the regulation of mitochondrial organization (PubMed: 29361167). It is required for mitochondrial fission and promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity.
Cellular Location	Mitochondrion outer membrane; Single-pass membrane protein. Note=Colocalizes with DNM1L at mitochondrial membrane. Forms foci and rings around mitochondria
Tissue Location	Expressed in all tissues tested with highest expression in heart and skeletal muscle.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (SMCR7) Polyclonal Antibody, Unconjugated (AP54912) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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