

Rabbit SMCR7L/MID51 Polyclonal Antibody | anti-SMCR7L/MID51 antibody

SMCR7L/MID51 Antibody

CATALOG # AAA322846	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	---

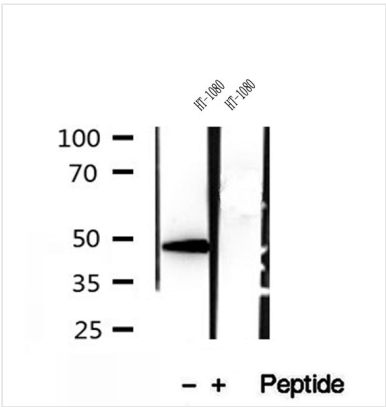
PRODUCT SYNONYMS

SMCR7L/MID51; Polyclonal Antibody; SMCR7L/MID51 Antibody; dJ1104E15.3; HSU79252; Hypothetical protein LOC54471; MID51; MIEF1; mitochondrial dynamic protein MID51; mitochondrial dynamic protein of 51 kDa; mitochondrial dynamics protein MID51; mitochondrial dynamics protein of 51 kDa; mitochondrial elongation factor 1; SMC7L_HUMAN; SMCR7-like protein; Smcr7l; Smith Magenis syndrome chromosome region candidate gene 7 protein like; Smith-Magenis syndrome chromosomal region candidate gene 7 protein-like; Smith-Magenis syndrome chromosome region; candidate 7-like; anti-SMCR7L/MID51 antibody

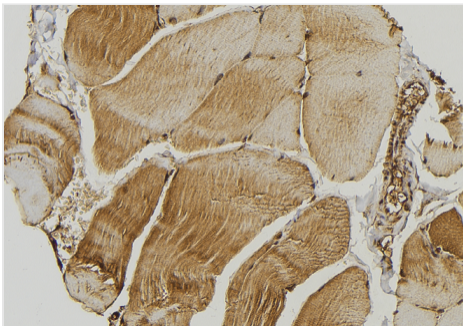
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SMCR7L/MID51 antibody detects endogenous levels of SMCR7L/MID51.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	478
Applicable Applications for anti-SMCR7L/MID51 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SMCR7L/MID51.
Subcellular Location	Membrane.
Tissue Specificity	Expression is relatively high in heart, skeletal muscle, pancreas and kidney.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of HT-1080 cells, using SMCR7L/MID51 antibody.



IHC (Immunohistochemistry)
AAA322846 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SMCR7L/MID51 antibody	Function: Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently 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 and DNM1L oligomerization. Binds ADP and can also bind GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not require ADP for its function in recruiting DNM1L. Subunit Structure: Homodimer. Interacts with DNM1L. Similarity: Belongs to the SMCR7 family.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	752507721
NCBI GeneID	54471
NCBI Accession #	NP_001291493.1
NCBI GenBank Nucleotide #	NM_001304564.1
UniProt Accession #	Q9NQG6; Q7L890; Q9BUI3; L0R8F8
Molecular Weight	Observed: 48-51 kDa Predicted: 52 kDa
NCBI Official Full Name	mitochondrial dynamics protein MID51 isoform 2
NCBI Official Synonym Full Names	mitochondrial elongation factor 1
NCBI Official Symbol	MIEF1
NCBI Official Synonym Symbols	MID51; SMCR7L; AltMIEF1; HSU79252; dJ1104E15.3
NCBI Protein Information	mitochondrial dynamics protein MID51
UniProt Protein Name	Mitochondrial dynamics protein MID51
UniProt Gene Name	MIEF1
UniProt Synonym Gene Names	MID51; SMCR7L; SMCR7-like protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

