

SMCR7L/MID51 Polyclonal antibody

Catalog Number: 20164-1-AP

Featured Product

65 Publications

Basic Information

Catalog Number:

20164-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13775

GenBank Accession Number:

BC002587

GeneID (NCBI):

54471

UNIPROT ID:

Q9NQG6

Full Name:

Smith-Magenis syndrome
chromosome region, candidate 7-like

Calculated MW:

463 aa, 51 kDa

Observed MW:

48-51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

FC, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, monkey, pig

Positive Controls:

WB: A549 cells, mouse testis tissue, NIH/3T3 cells,
RAW264.7, HEK-293T cells, HT-1080 cells

IP: RAW 264.7 cells,

Background Information

Human SMCR7L gene encodes, MID51, the mitochondrial dynamic protein of 51 kDa (also called mitochondrial elongation factor 1, MIEF1). MID51 is a single-pass membrane protein anchored to the mitochondrial outer membrane and regulates mitochondrial morphology. Mitochondrial morphology is controlled by two opposing processes: fusion and fission. Elevated MID51 levels induce extensive mitochondrial fusion, whereas depletion of MID51 causes mitochondrial fragmentation. MID51 interacts with and recruits Drp1 to mitochondria, suggesting a critical role of MID51 in regulation of mitochondrial fusion-fission machinery in vertebrates.

Notable Publications

Author	Pubmed ID	Journal	Application
William T King	34529976	J Biol Chem	WB
Dandan Liu	36083519	Mol Neurobiol	WB
Di Hu	34489447	Nat Commun	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

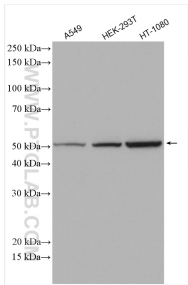
For technical support and original validation data for this product please contact:

T: 4006900926

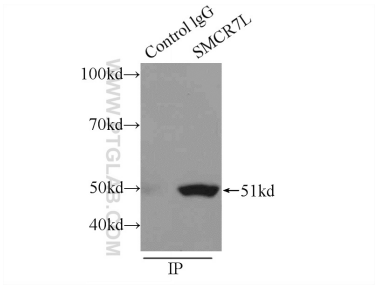
E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20164-1-AP (SMCR7L/MID51 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-SMCR7L/MID51 (IP:20164-1-AP, 3ug; Detection:20164-1-AP 1:1000) with RAW 264.7 cells lysate 2400ug.