

Anti-SMCR7L/MID51/MIEF1 Antibody

Catalog Number: A31546

About MIEF1

Mitochondrial dynamic protein MID51 (MID51) also known as mitochondrial elongation factor 1 (MIEF1) or Smith-Magenis syndrome chromosome region candidate gene 7 protein-like (SMCR7L) is a protein that in humans is encoded by the SMCR7L gene. The SMCR7L gene codes for a protein that has been called MiD51/MIEF1 and shown to regulate mitochondrial fission by interacting with the proteins Drp1 and FIS1.

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Overview

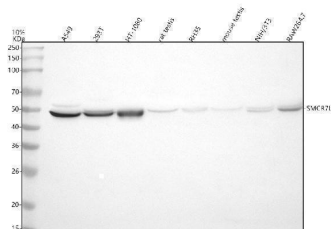
Product Name	Anti-SMCR7L/MID51/MIEF1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SMCR7L/MID51/MIEF1 Antibody catalog # A31546. Tested in WB, ICC, IF, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IF, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt □ -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9NQG6

Technical Details

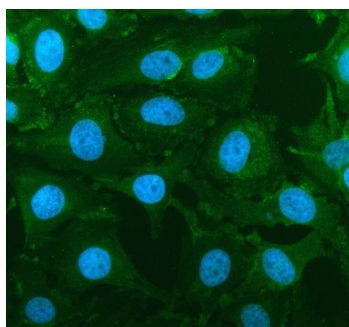
Immunogen	E.coli-derived human SMCR7L/MID51/MIEF1 recombinant protein (Position: T100-T463).
Form	Liquid

Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunocytochemistry/Immunofluorescence, 1:50-400 Immunoprecipitation, 1:50 ELISA, 1:100-1000

Anti-SMCR7L/MID51/MIEF1 Antibody (A31546) Images



Western blot analysis of SMCR7L/MID51/MIEF1 using anti-SMCR7L/MID51/MIEF1 antibody (A31546). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human HT-1080 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: rat RH-35 whole cell lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse NIH/3T3 whole cell lysates, Lane 8: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SMCR7L/MID51/MIEF1 antigen affinity purified polyclonal antibody (A31546) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for SMCR7L/MID51/MIEF1 at approximately 48 kDa. The expected band size for SMCR7L/MID51/MIEF1 is at 51 kDa.



IF analysis of SMCR7L/MID51/MIEF1 using anti-SMCR7L/MID51/MIEF1 antibody (A31546). SMCR7L/MID51/MIEF1 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1:100 rabbit anti-SMCR7L/MID51/MIEF1 Antibody (A31546) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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For Research Use Only. Not for use in diagnostic procedures.