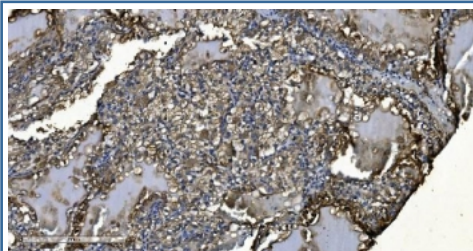


MIEF1 Antibody / Mitochondrial dynamics protein MID51 (RQ6428)

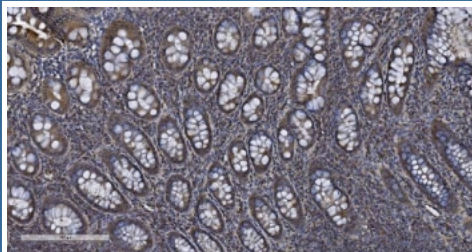
Catalog No.	Formulation	Size
RQ6428	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

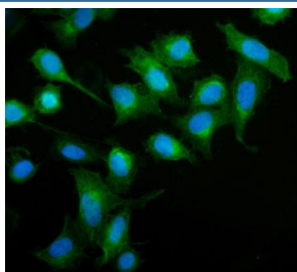
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NQG6
Localization	Cytoplasmic (mitochondria)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This MIEF1 antibody is available for research use only.



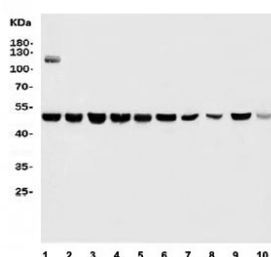
IHC staining of FFPE human renal clear cell carcinoma tissue with MIEF1 antibody.
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



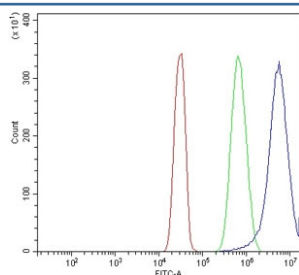
IHC staining of FFPE human rectal cancer tissue with MIEF1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with MIEF1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HT1080, 2) Jurkat, 3) K562, 4) HL60, 5) HEK293, 6) U937, 7) HepG2, 8) rat heart, 9) rat kidney and 10) mouse kidney tissue lysate with MIEF1 antibody. Predicted molecular weight ~51 kDa.



Flow cytometry testing of human SiHa cells with MIEF1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MIEF1 antibody.

Description

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.

Application Notes

Optimal dilution of the MIEF1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids S189-T463) was used as the immunogen for the MIEF1 antibody.

Storage

After reconstitution, the MIEF1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

