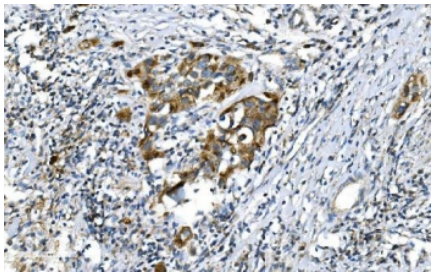
DNM1L Antibody / DRP1 (RQ5810)

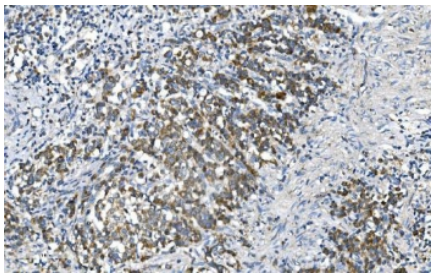
Catalog No.	Formulation	Size
RQ5810	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

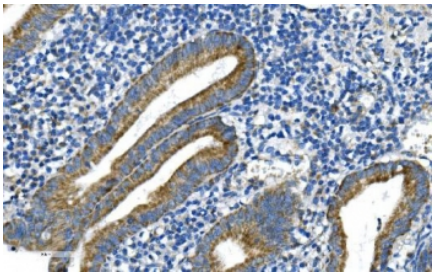
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O00429
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 2-4ug/ml Immunofluorescence (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This DNM1L antibody is available for research use only.



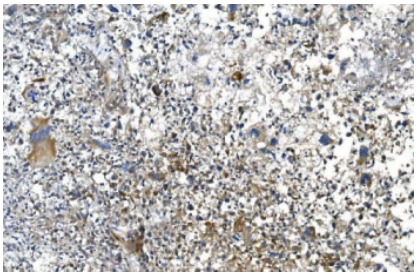
IHC staining of FFPE human bladder cancer with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



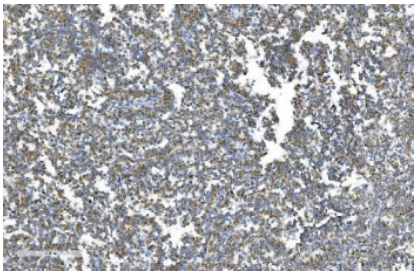
IHC staining of FFPE human gastric cancer with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



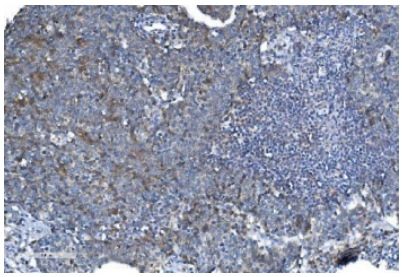
IHC staining of FFPE human appendicitis tissue with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



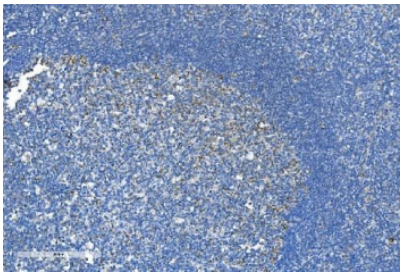
IHC staining of FFPE human liver cancer with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



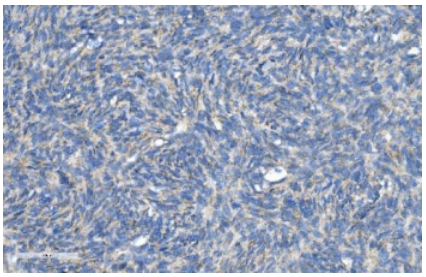
IHC staining of FFPE human melanoma with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



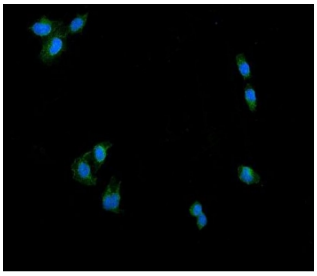
IHC staining of FFPE human lung cancer with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



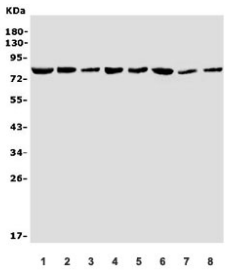
IHC staining of FFPE human tonsil with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



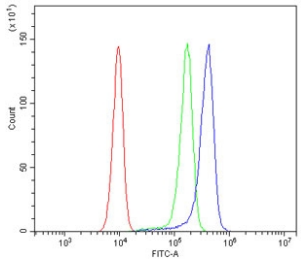
IHC staining of FFPE human skin cancer with DNM1L antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



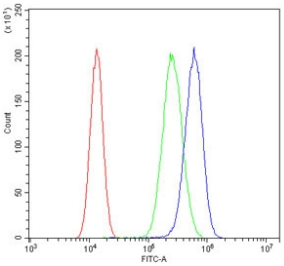
Immunofluorescent staining of FFPE human U-2 OS cells with DNM1L antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) Caco-2, 2) K562, 3) A549 and rat 4) heart, 5) kidney, 6) liver, 7) brain and 8) mouse HEPA1-6 lysate with DNM1L antibody. Predicted molecular weight: 60-84 kDa (multiple isoforms).



Flow cytometry testing of human SiHa cells with DNM1L antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DNM1L antibody.



Flow cytometry testing of human A549 cells with DNM1L antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DNM1L antibody.

Description

Dynamin-1-like protein is a GTPase that regulates mitochondrial fission. In humans, dynamin-1-like protein, which is typically referred to as dynamin-related protein 1 (Drp1), is encoded by the DNM1L gene. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the DNM1L antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q618-W736) was used as the immunogen for the DNM1L antibody.

Storage

After reconstitution, the DNM1L antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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