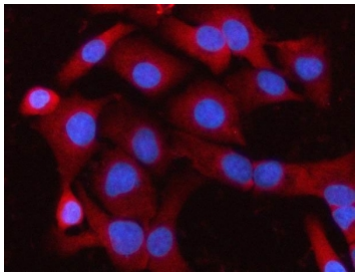
MELK Antibody / Maternal embryonic leucine zipper kinase (RQ8539)

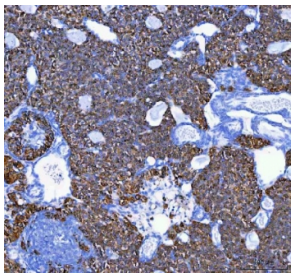
Catalog No.	Formulation	Size
RQ8539	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

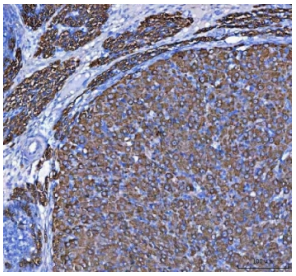
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q14680
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This MELK antibody is available for research use only.



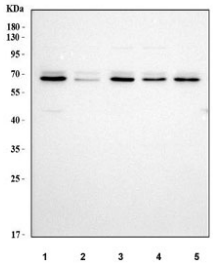
Immunofluorescent staining of FFPE human A549 cells with MELK antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



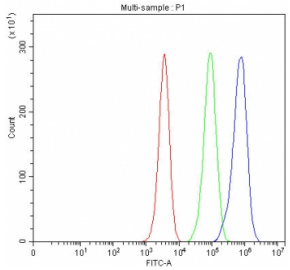
IHC staining of FFPE mouse ovary tissue with MELK antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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



Western blot testing of human 1) HeLa, 2) 293T, 3) K562, 4) U-87 MG and 5) Jurkat cell lysate with MELK antibody. Predicted molecular weight: 53-75 kDa (multiple isoforms).



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

Description

Maternal embryonic leucine zipper kinase (MELK) is an enzyme that in humans is encoded by the MELK gene. Maternal embryonic leucine-zipper kinase (MELK) is a key regulator of survival of stemlike GBM cells in vitro. MELK expression is increased in breast cancer tissue and this increase is also associated with poor patient survival, as predicted for a candidate oncogene.

Application Notes

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

Immunogen

An E.coli-derived human recombinant protein (amino acids H66-Q629) was used as the immunogen for the MELK antibody.

Storage

After reconstitution, the MELK 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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