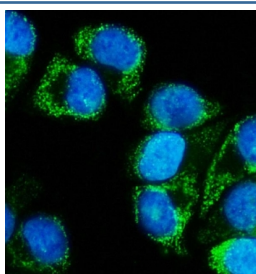


MEK5 Antibody / MAP2K5 (RQ6324)

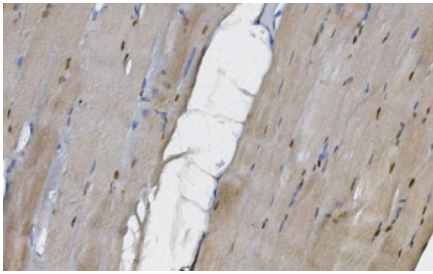
Catalog No.	Formulation	Size
RQ6324	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

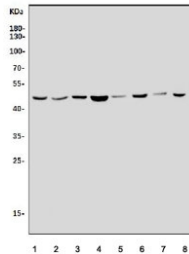
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13163
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This MEK5 antibody is available for research use only.



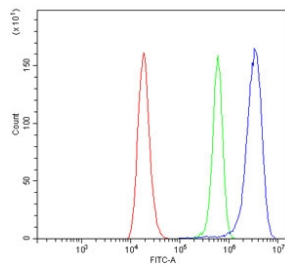
Immunofluorescent staining of FFPE human T-47D cells with MEK5 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human skeletal muscle with MEK5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HEK293, 2) A549, 3) K562, 4) A549, 5) HeLa, 6) PC-3, 7) SW620, 8) monkey COS-7 and 8) rat testis tissue lysate with MEK5 antibody. Predicted molecular weight ~50 kDa.



Flow cytometry testing of human 293T cells with MEK5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MEK5 antibody.

Description

Dual specificity mitogen-activated protein kinase kinase 5 is an enzyme that in humans is encoded by the MAP2K5 gene. The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described.

Application Notes

Optimal dilution of the MEK5 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids F9-R442) was used as the immunogen for the MEK5 antibody.

Storage

After reconstitution, the MEK5 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.

