

ERK7 monoclonal antibody

Catalog: MB67159

Host: Mouse

Reactivity: Human

BackGround:

Atypical MAPK protein that regulates several process such as autophagy, ciliogenesis, protein trafficking/secretion and genome integrity, in a kinase activity-dependent manner.

Controls both, basal and starvation-induced autophagy through its interaction with GABARAP, MAP1LC3B and GABARAPL1 leading to autophagosome formation, SQSTM1 degradation and reduced MAP1LC3B inhibitory phosphorylation.

Regulates primary cilium formation and the localization of ciliary proteins involved in cilium structure, transport, and signaling.

Prevents the relocation of the sugar-adding enzymes from the Golgi to the endoplasmic reticulum, thereby restricting the production of sugar-coated proteins.

Upon amino-acid starvation, mediates transitional endoplasmic reticulum site disassembly and inhibition of secretion.

Binds to chromatin leading to MAPK15 activation and interaction with PCNA, that which protects genomic integrity by inhibiting MDM2-mediated degradation of PCNA.

Regulates DA transporter (DAT) activity and protein expression via activation of RhoA.

In response to H₂O₂ treatment phosphorylates ELAVL1, thus preventing it from binding to the PDCD4 3'UTR and rendering the PDCD4 mRNA accessible to miR-21 and leading to its degradation and loss of protein expression.

Also functions in a kinase activity-independent manner as a negative regulator of growth (By similarity).

Phosphorylates in vitro FOS and MBP.

During oocyte maturation, plays a key role in the microtubule organization and meiotic cell cycle progression in oocytes, fertilized eggs, and early embryos (By similarity).

Interacts with ESRRB promoting its re-localization from the nucleus to the cytoplasm and then prevents its transcriptional activity.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 63 kDa

Swiss-Prot:

Q8TD08

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/10 - 1/50)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

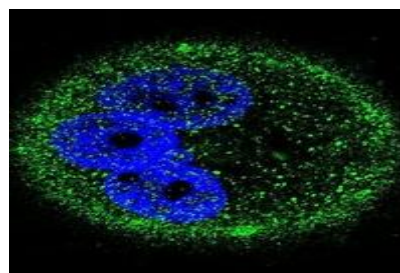
Specificity:

Recognizes endogenous levels of ERK7 protein.

DATA:



Western blot analysis of ERK7 expression in MCF7 (A) whole cell lysates.



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PRODUCT DATA SHEET

Bioworld Technology, Inc.

Immunofluorescent analysis of ERK7 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber.

Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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