

ERK5 Rabbit mAb

Catalog No: #49183



Package Size: #49183-1 50ul #49183-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

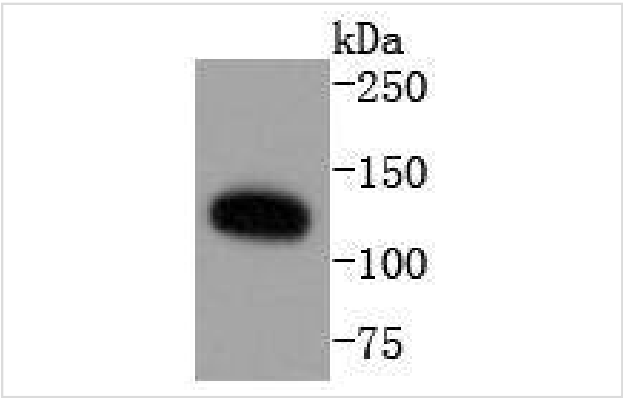
Description

Product Name	ERK5 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD2084
Purification	ProA affinity purified
Applications	WB, ICC/IF, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Big MAP kinase 1 antibody BMK 1 antibody BMK 1 kinase antibody BMK-1 antibody BMK1 antibody BMK1 Kinase antibody EC 2.7.11.24 antibody ERK 4 antibody ERK 5 antibody ERK-5 antibody ERK4 antibody ERK5 antibody Extracellular signal regulated kinase 5 antibody Extracellular signal-regulated kinase 5 antibody MAP kinase 7 antibody MAPK 7 antibody MAPK7 antibody Mitogen activated protein kinase 7 antibody Mitogen-activated protein kinase 7 antibody MK07_HUMAN antibody OTTHUMP00000065906 antibody OTTHUMP00000065907 antibody PRKM 7 antibody PRKM7 antibody PROTEIN KINASE, MITOGEN-ACTIVATED, 7 antibody
Accession No.	Swiss-Prot#:Q13164
Uniprot	Q13164
GeneID	5598;
Calculated MW	115 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

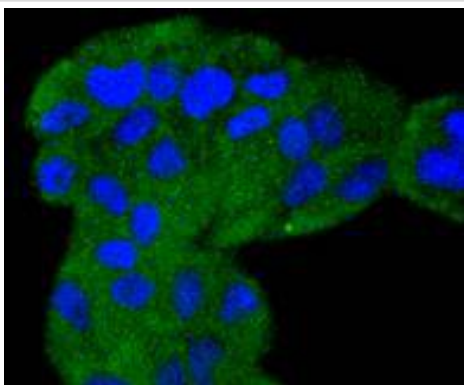
Application Details

WB: 1:1,000-1:2,000 ICC: 1:100-1:500 FC: 1:50-1:100

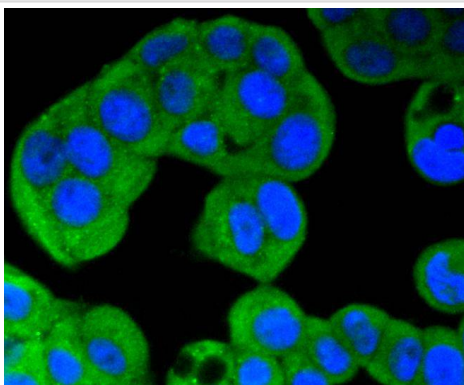
Images



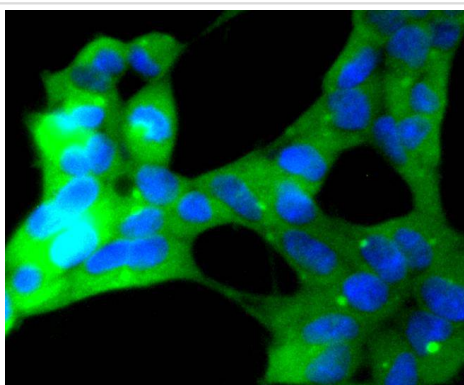
Western blot analysis of ERK5 on Hela cells lysates using anti-ERK5 antibody at 1/1,000 dilution.



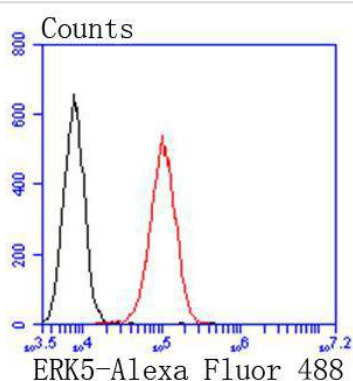
ICC staining ERK5 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ERK5 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ERK5 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of A549 cells with ERK5 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated through two closely related MAP kinases, p44 and p42, designated extracellular-signal related kinase 1 (ERK 1) and ERK 2, respectively. ERK proteins are regulated by dual phosphorylation at specific tyrosine and threonine sites mapping within a characteristic Thr-Glu-Tyr motif. Phosphorylation at both the Thr and Tyr residues is required for full enzymatic activation. In response to activation, MAP kinases phosphorylate downstream components on serine and threonine. Upstream MAP kinase regulators include MAP kinase kinase (MEK), MEK kinase and Raf-1. The ERK family has three additional members: ERK 3, ERK 5 and ERK 6.

References

Note: This product is for in vitro research use only