

MEKK3 Rabbit mAb

Catalog No: #49214

Package Size: #49214-1 50ul #49214-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

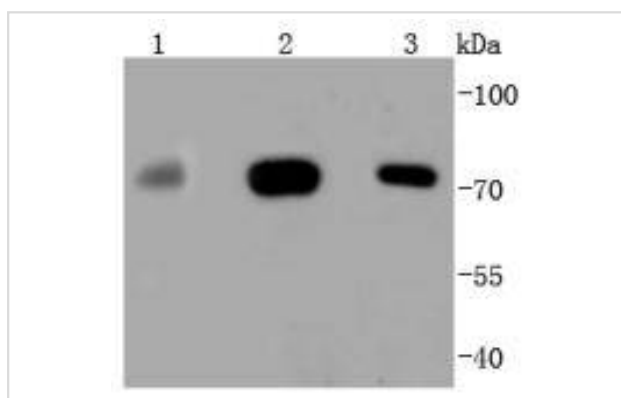
Description

Product Name	MEKK3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD0839
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	M3K3_HUMAN antibody MAP/ERK kinase kinase 3 antibody MAP3K3 antibody MAPK/ERK kinase kinase 3 antibody MAPKKK3 antibody MEK kinase 3 antibody MEKK 3 antibody MEKK3 antibody Mitogen activated protein kinase kinase kinase 3 antibody Mitogen-activated protein kinase kinase kinase 3 antibody
Accession No.	Swiss-Prot#:Q99759
Uniprot	Q99759
GeneID	4215;
Calculated MW	71 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

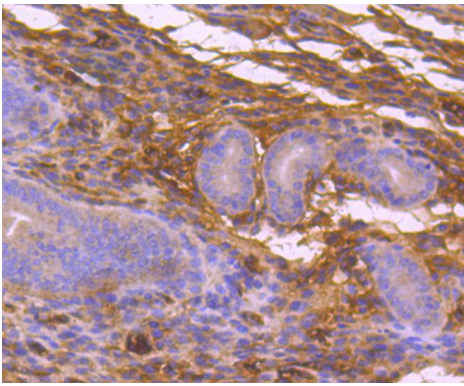
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

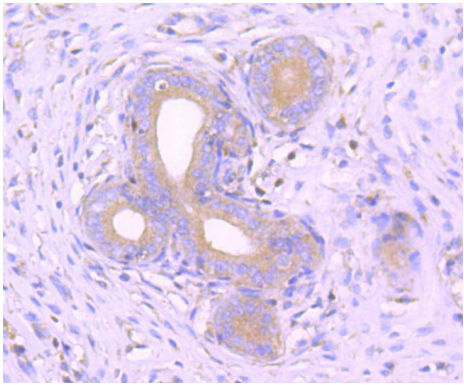
Images



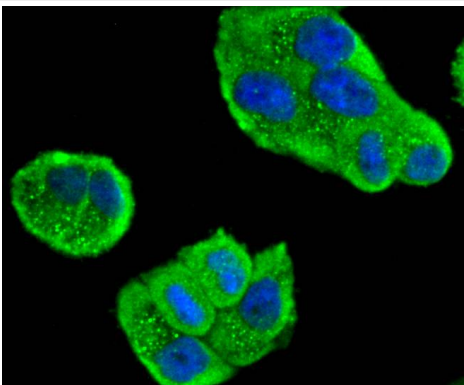
Western blot analysis of MEKK3 on different lysates using anti-MEKK3 antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: 293T Lane 3: A431



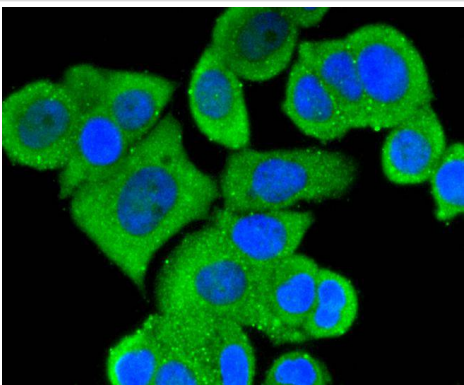
Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-MEKK3 antibody. Counter stained with hematoxylin.



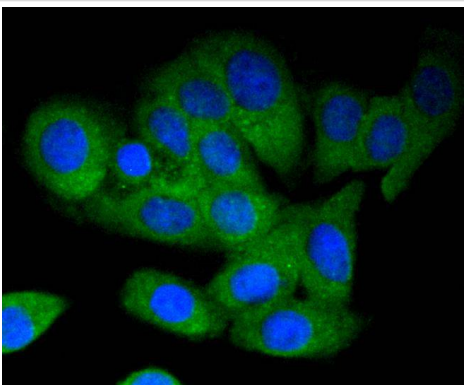
Immunohistochemical analysis of paraffin-embedded rat uterus tissue using anti-MEKK3 antibody. Counter stained with hematoxylin.



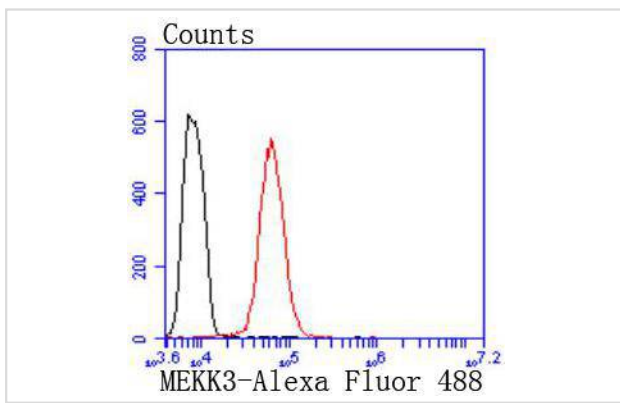
ICC staining MEKK3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MEKK3 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 MEKK3 in SKOV-3 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 Hela cells with MEKK3 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

MAP kinase kinase kinase (MEKK3 or MAP3K3) is a serine/threonine protein kinase that activates SAPK and ERK via phosphorylation and activation of their respective MAP kinase kinases, SEK and MEK1/2. MEKK3 also stimulates MEK5 via activation of ERK5/BMK1, which is at least partly regulated by a direct interaction between MEK5 and MEKK3 via p67phox-Bem1p (PB1) protein-protein interaction domains found in both proteins. MEKK3 modulates NF- κ B activation in response to a variety of agonists including TNF α , LPS, IL-1 and LPA. Despite reports showing that phosphorylation of MEKK3 at Ser526 within the activation loop is necessary for kinase activation, at least one study suggests that dual phosphorylation at Thr516 and Ser520 is required for LPA-stimulated IKK β /NF- κ B activation. Phosphorylation at Thr294 appears to negatively regulate MEKK3 by promoting 14-3-3 β binding and inhibition of the kinase activity.

References

Note: This product is for in vitro research use only