Product Datasheet

MEK1 Rabbit mAb

Catalog No: #48682

Package Size: #48682-1 50ul #48682-2 100ul

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

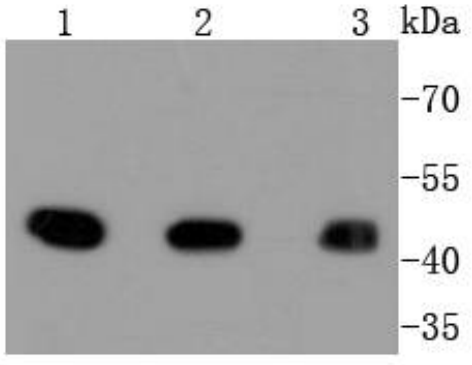
Description

Product Name	MEK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ22-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt, Cow, Dog
Immunogen Description	recombinant protein
Other Names	Dual specificity mitogen activated protein kinase kinase 1 antibody Dual specificity mitogen-activated protein kinase kinase 1 antibody ERK activator kinase 1 antibody MAP kinase kinase 1 antibody MAP kinase/Erk kinase 1 antibody MAP2K1 antibody MAPK/ERK kinase 1 antibody MAPKK 1 antibody MAPKK1 antibody MEK 1 antibody Mek1 antibody MEKK1 antibody Mitogen activated protein kinase kinase 1 antibody MKK 1 antibody MKK1 antibody MP2K1_HUMAN antibody PRKMK1 antibody Protein kinase mitogen activated kinase 1 (MAP kinase kinase 1) antibody Protein kinase mitogen activated, kinase 1 antibody
Accession No.	Swiss-Prot#:Q02750
Calculated MW	43 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

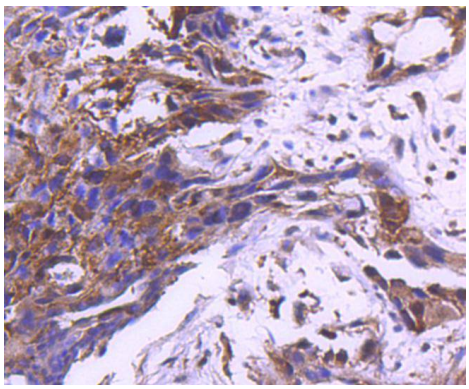
Application Details

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

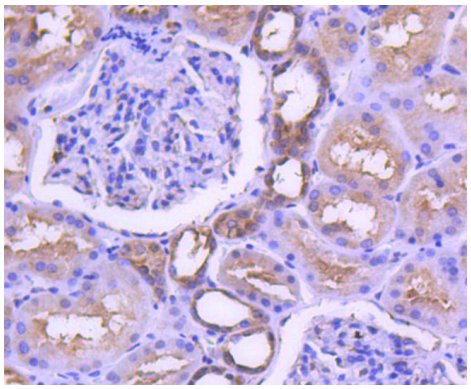
Images



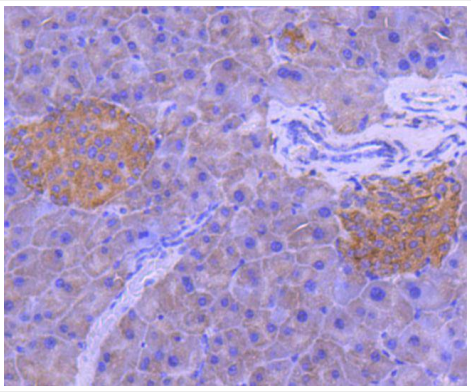
Western blot analysis of MEK1 on different lysates using anti-MEK1 antibody at 1/1,000 dilution. Positive control: Lane 1: A431 Lane 2: HepG2 Lane 3: Hela



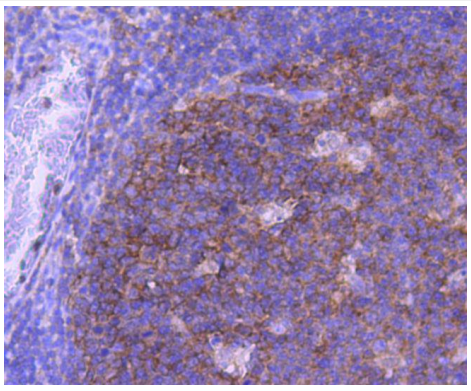
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-MEK1 antibody. Counter stained with hematoxylin.



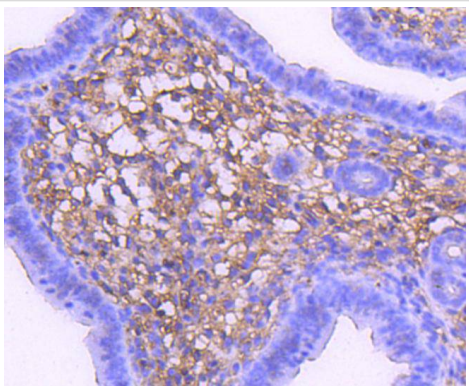
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-MEK1 antibody. Counter stained with hematoxylin.



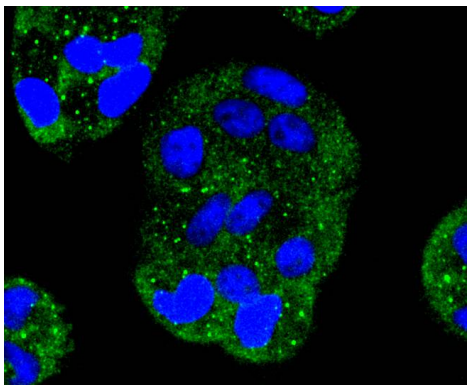
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-MEK1 antibody. Counter stained with hematoxylin.



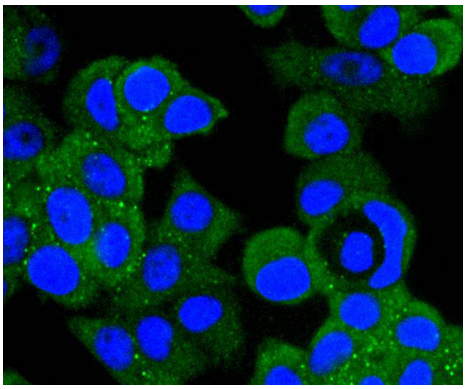
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-MEK1 antibody. Counter stained with hematoxylin.



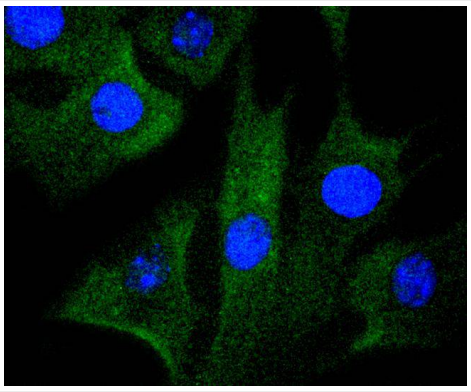
Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-MEK1 antibody. Counter stained with hematoxylin.



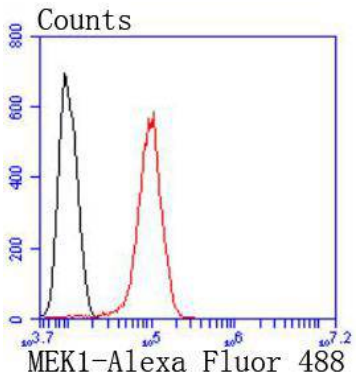
ICC staining MEK1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MEK1 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 MEK1 in NIH/3T3 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 MEK1 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

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK5, whereas MEK-6 phosphorylates p38 and p38b. MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

References

1. Chou YY et al. Colocalization of different influenza viral RNA segments in the cytoplasm before viral budding as shown by single-molecule sensitivity FISH analysis. PLoS Pathog 9:e1003358 (2013). 2. Nath S et al. MUC1 induces drug resistance in pancreatic cancer cells via upregulation of multidrug resistance genes. Oncogenesis 2:e51 (2013).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.