Data Sheet (Cat.No.TMAC-02556)

Anti-MEKK2 Antibody (5G332)

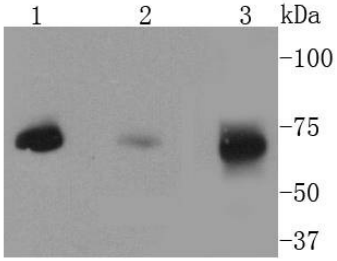
Product Details

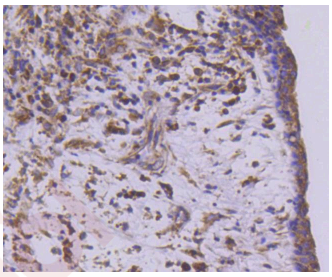
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 70 kDa.
Clone:	5G332
Purification:	ProA affinity purified

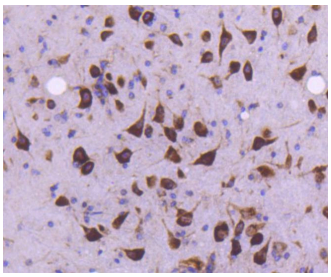
Applications

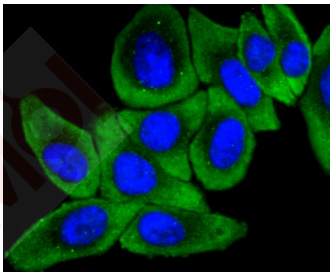
Verified Activity:

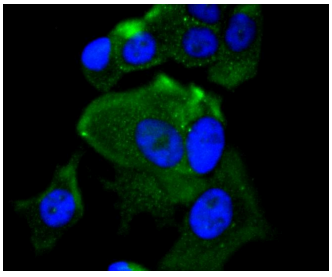
1. Western blot analysis of MEKK2 on different lysates using anti-MEKK2 antibody at 1/1,000 dilution. Positive control: Lane 1: HepG2, Lane 2: Rat brain, Lane 3: SW480.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-MEKK2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MEKK2 antibody. Counter stained with hematoxylin.
4. ICC staining MEKK2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining MEKK2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining MEKK2 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of HepG2 cells with MEKK2 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.

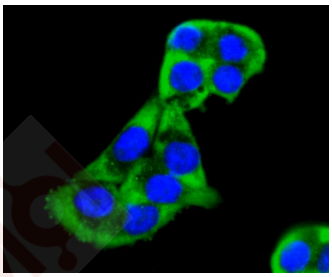


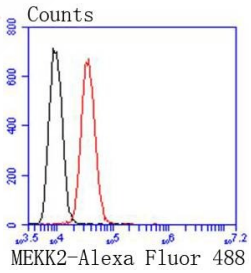












Application: FCM,ICC,IHC,IP,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q9Y2U5
Synonyms:	Map3k2;Mitogen activated protein kinase kinase kinase 2;MEKK2;MEK kinase 2;M3K2_HUMAN; Mitogen-activated protein kinase kinase kinase 2;MEKK2b;MAPK/ERK kinase kinase 2

Research Background

Mitogen-activated protein (MAP) kinase cascades are activated by various extracellular stimuli including growth factors. The MEK kinases (also designated MAP kinase kinase kinases, MKKKs, MAP3Ks or MEKKs) phosphorylate and thereby activate the MEKs (also called MAP kinase kinases or MKKs), including ERK, JNK and p38. These activated MEKs in turn phosphorylate and activate the MAP kinases. The MEK kinases include Raf-1, Raf-B, Mos, MEK kinase-1, MEK kinase-2, MEK kinase-3, MEK kinase-4, ASK 1 (MEK kinase-5) and MAP3K6 (MEK kinase-6). MEK kinase-1 has been shown to phosphorylate MEK-1 via a Raf-independent pathway. Evidence suggests that MEK-3 is preferentially activated by MEK kinase-3 and that MEK-4 is activated by both MEK kinase-2 and MEK kinase-3. MEK kinase-4 has been shown to specifically activate the JNK pathway. ASK 1 activates both MEK-4 and MEK-3/MEK-6 pathways.

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