Data Sheet (Cat.No.TMAC-03237)

Anti-Phospho-MAP2K1 (Ser218, 222) Antibody (3S158)

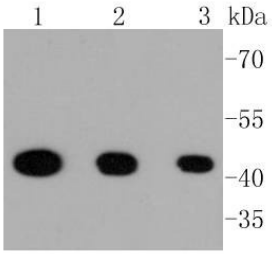
Product Details

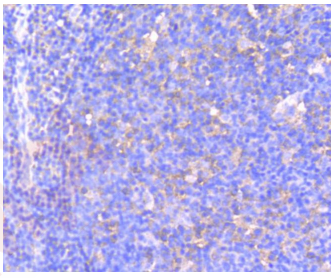
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 45 kDa.
Clone:	3S158
Purification:	ProA affinity purified

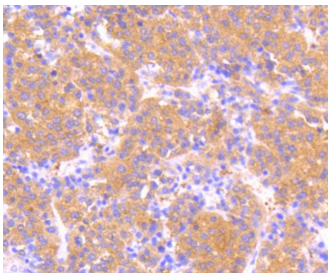
Applications

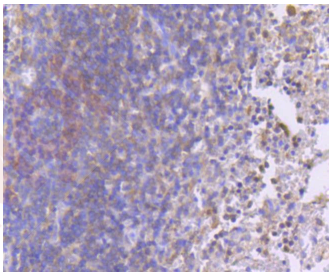
Verified Activity:

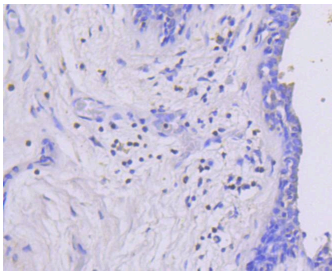
1. Western blot analysis of Phospho-MEK1 (S218/S222) on different lysates using anti-Phospho-MEK1 (S218/S222) antibody at 1/1,000 dilution. Positive control: Lane 1: A431, Lane 2: Hela, Lane 3: 293T.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-MEK1 (S218/S222) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Phospho-MEK1 (S218/S222) antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Phospho-MEK1 (S218/S222) antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-Phospho-MEK1 (S218/S222) antibody. Counter stained with hematoxylin.
6. ICC staining Phospho-MEK1 (S218/S222) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Phospho-MEK1 (S218/S222) in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Phospho-MEK1 (S218/S222) in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

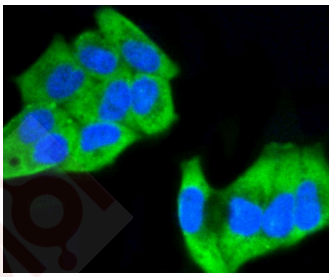


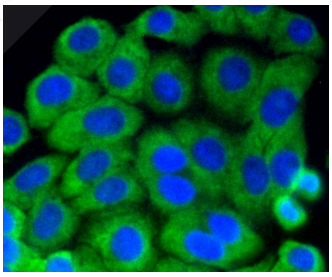


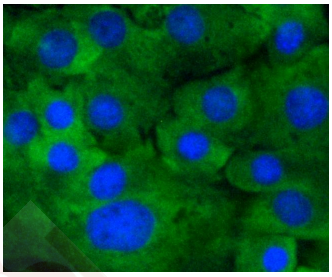












Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

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:	A synthesized phosphopeptide: human MEK1 around the phosphorylation site of Ser218 and 222
Antigen Species:	Human
Uniprot ID:	Q02750
Synonyms:	MAP2K1 (p-Ser218, 222);p-MAP2K1 (Ser218, 222);MAP2K1 (p-S218, 222);p-MAP2K1 (S218, 222)

Research Background

Activation of extracellular signal-regulated kinase (ERK) or mitogen-activated protein kinase by MEK (mitogen-activated protein kinase or extracellular signal-regulated kinase kinase) is an essential event in the mitogenic growth factor-induced signal transduction pathway. Phosphorylation of MEKs correlates with their ability to phosphorylate and activate ERKs. MEK1 and MEK2 can also be activated by autophosphorylation. Lipopolysaccharide activates many of the MAPK family members of the immediate upstream MAPK activator MEK1, MEK2, and MEK3. In plants, MEK can phosphorylate and activate MAPK, and that Tyr phosphorylation is critical for the catalytic activity of MAPK in plants.