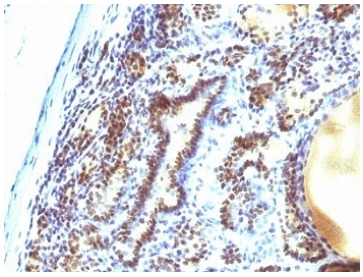
MAP3K1 Antibody / MEKK1 [clone 2F6] (V2702)

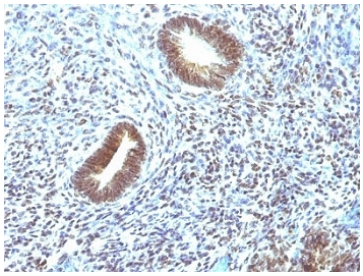
Catalog No.	Formulation	Size
V2702-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2702-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2702SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2702IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

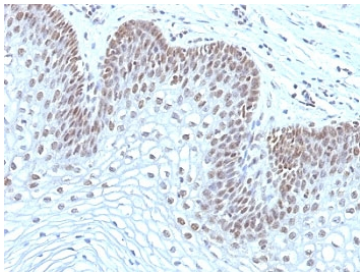
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	2F6
Purity	Protein G affinity chromatography
UniProt	Q13233
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This MAP3K1 antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with MAP3K1 antibody (2F6).



IHC: Formalin-fixed, paraffin-embedded human uterine carcinoma stained with MAP3K1 antibody (2F6).



IHC: Formalin-fixed, paraffin-embedded human cervical carcinoma stained with MAP3K1 antibody (2F6).

Description

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 and ASK 1 (MEK kinase- 5). MEK kinase-1 activates the ERK and c-Jun NH2-terminal kinase (JNK) pathways by phosphorylation of MAP2K1 and MAP2K4, and also activates the central protein kinases of the NF-kB pathway, CHUK and IKBKB. Additionally, MEK kinase-1 uses an E3 ligase through its PHD domain, a RING-finger-like structure, to target proteins for degradation through ubiquitination.

Application Notes

Optimal dilution of the MAP3K1 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A partial recombinant protein (aa 1211-1310) was used as the immunogen for the MAP3K1 antibody.

Storage

Store the MAP3K1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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