MAPK10 Antibody

Catalog No: #33816

Package Size: #33816-1 50ul #33816-2 100ul

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

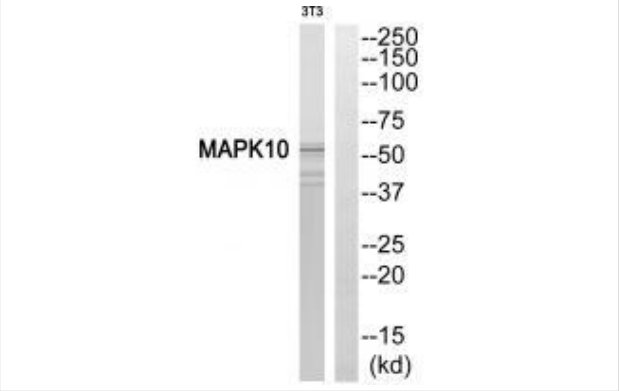
Description

Product Name	MAPK10 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total MAPK10 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human MAPK10.
Target Name	MAPK10
Other Names	EC 2.7.11.24; JNK3-alpha-2; JNK3A; MAP kinase p49 3F12; MAPK10
Accession No.	Swiss-Prot: P53779NCBI Gene ID: 5602/
Uniprot	P53779
GeneID	5602;
SDS-PAGE MW	48kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from HeLa cells, 293 cells and Jurkat cells, using MAPK10 antibody #33816.

Background

Serine/threonine-protein kinase involved in various processes such as neuronal proliferation, differentiation, migration and programmed cell death. Extracellular stimuli such as proinflammatory cytokines or physical stress stimulate the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade, two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate MAPK10/JNK3. In turn, MAPK10/JNK3 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN and ATF2 and thus regulates AP-1 transcriptional activity. Plays regulatory roles in the signaling pathways during neuronal apoptosis. Phosphorylates the neuronal microtubule regulator STMN2. Acts in the regulation of the beta-amyloid precursor protein/APP signaling during neuronal differentiation by phosphorylating APP. Participates also in neurite growth in spiral ganglion neurons.

Mohit A.A., Neuron 14:67-78(1995).
Lisnock J., Biochemistry 39:3141-3148(2000).
Jagadish N., Biochem. J. 389:73-82(2005).

Note: This product is for in vitro research use only