

Product Name: KD-Validated MAPK3 Mouse Monoclonal Antibody**Catalog #: KVA00610**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1 kappa
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 43.1kDa

Antigen Information

Gene Name	MAPK3 MAPK3; Mitogen-Activated Protein Kinase 3; ERK1; P44mapk; P44erk1; PRKM3; Extracellular Signal-Regulated Kinase 1; Microtubule-Associated Protein 2 Kinase; Insulin-Stimulated
Alternative Names	MAP2 Kinase; EC 2.7.11.24; P44-ERK1; P44-MAPK; ERK-1; ERT2; Extracellular Signal-Related Kinase 1; MAP Kinase Isoform P44; MAP Kinase 3; EC 2.7.11; HS44KDAP; HUMKER1A; MAPK 1; MAPK 3
Gene ID	5595.0
SwissProt ID	P27361
Immunogen	A synthesized peptide derived from human ERK1

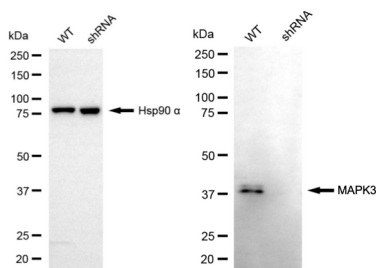
Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008]

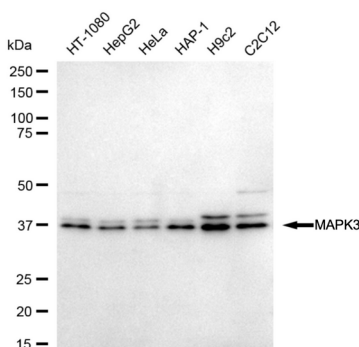
Research Area

Neuroscience, Signal Transduction, Stem Cells

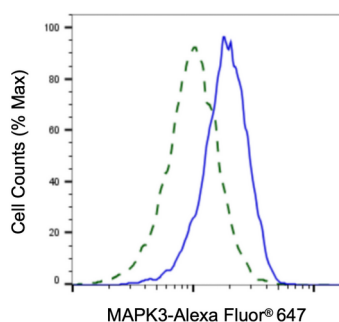
Image Data



Western blotting analysis using MAPK3 antibody (KVA00610). MAPK3 expression in wild-type (WT) and MAPK3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MAPK3 antibody (KVA00610, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using MAPK3 antibody (KVA00610). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MAPK3 antibody (KVA00610, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of MAPK3 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with MAPK3 antibody (KVA00610, 1:2,000) and analyzed using BD flow cytometer.