

Product Name: KD-Validated MAP3K7 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01675

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 67.2kDa

Antigen Information

Gene Name	MAP3K7 MAP3K7; Mitogen-Activated Protein Kinase Kinase Kinase 7; MEKK7; TAK1; Transforming
Alternative Names	Growth Factor-Beta-Activated Kinase 1; TGF-Beta Activated Kinase 1; EC 2.7.11.25; TGF-Beta-Activated Kinase 1; EC 2.7.11; TGF1a; CSCF; FMD2
Gene ID	6885.0
SwissProt ID	O43318
Immunogen	A synthesized peptide derived from human TAK1

Background

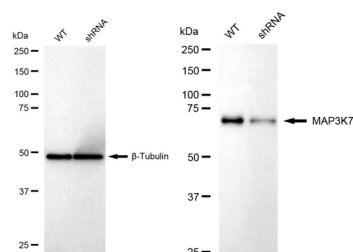
The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including

transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

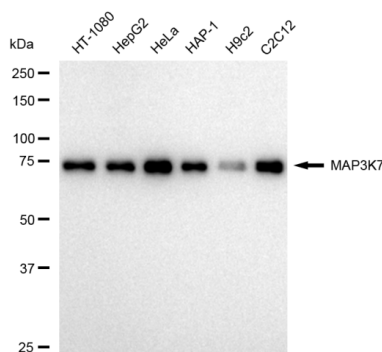
Research Area

Signal Transduction,Cancer,Cardiovascular,Immunology

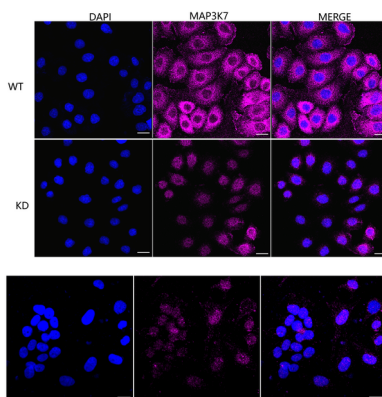
Image Data



Western blotting analysis using MAP3K7 antibody (KVA01675). MAP3K7 expression in wild type (WT) and MAP3K7 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with MAP3K7 antibody (KVA01675, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

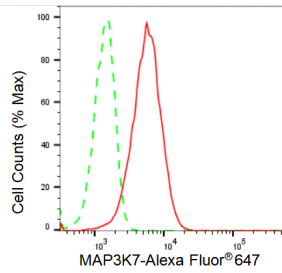


Western blotting analysis using MAP3K7 antibody (KVA01675). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MAP3K7 antibody (KVA01675, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using MAP3K7 antibody (KVA01675, 1:1,000), Top panel: wild-type (WT); Bottom panel: MAP3K7 shRNA knockdown (KD). Nuclei were stained blue with DAPI; MAP3K7 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

Immunocytochemical staining of HeLa cells with MAP3K7 antibody (KVA01675, 1:1,000). Nuclei were stained blue with DAPI; MAP3K7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Very low. Scale bar: 20 µm.



Flow cytometric analysis of MAP3K7 expression in HeLa cells using MAP3K7 antibody (KVA01675, 1:2,000). Green, isotype control; red, MAP3K7.