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Product datasheet for TA321732

ASK1 (MAP3K5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100
Reactivity:	Human, Mouse
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of serine 966 (S-I-S(p)-L-P) derived from Human ASK1.
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	155 kDa
Gene Name:	mitogen-activated protein kinase kinase kinase 5
Database Link:	NP_005914 Entrez Gene 26408 MouseEntrez Gene 4217 Human Q99683

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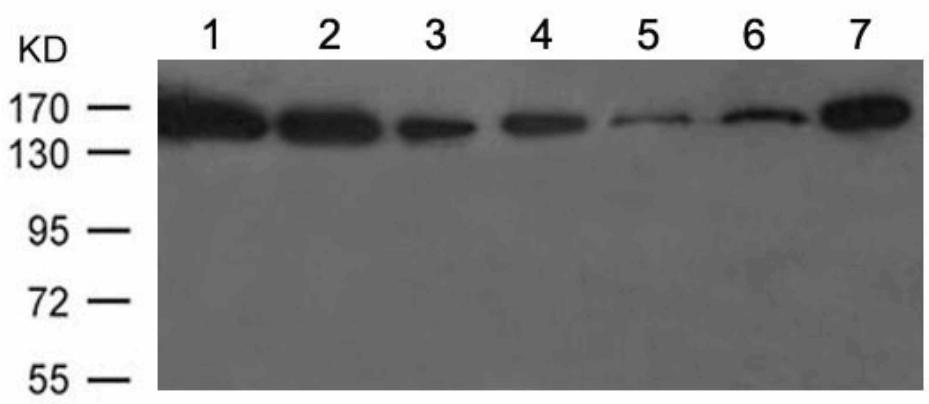
Background: Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK.

Synonyms: ASK1; MAPKKK5; MEKK5

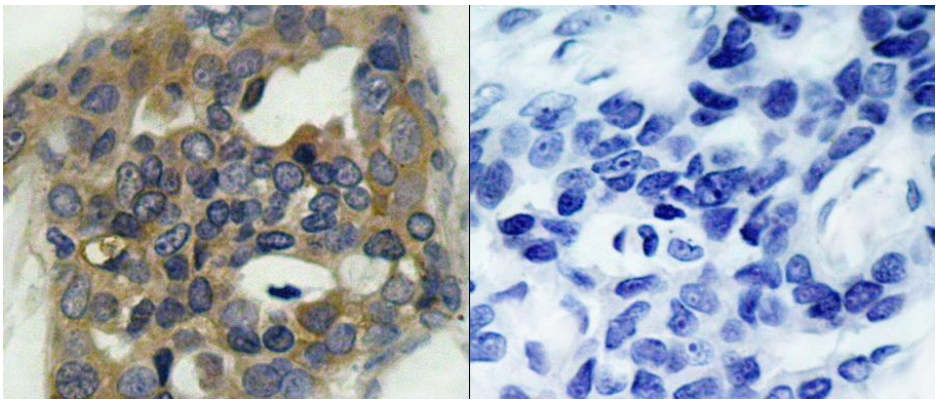
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Amyotrophic lateral sclerosis (ALS), MAPK signaling pathway, Neurotrophin signaling pathway

Product images:



Predicted band size: 155 kDa. Positive control: 293 and HepG2 cells treated with UV; 293 cells treated with serum and PMA; Cos7 and Hela cells treated with EGF; Hela cells treated with IFN-?— lysate. Recommended dilution: 1/ 500-1000. (Lane 1: 293 and HepG2 cells treated with UV; 293 cells treated with serum and PMA; Cos7 and Hela cells treated with EGF; Hela cells treated with IFN- . Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution.



Predicted cell location: Cytoplasm. Positive control: Human breast carcinoma tissue. Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using MAP3K5 (Phospho-Ser966) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification:x200)