



Rabbit Anti-phospho-MAP4K4 (Ser631) antibody

SL5492R

Product Name:	phospho-MAP4K4 (Ser631)
Chinese Name:	磷酸化丝裂原活化蛋白激酶MAP4K4抗体
Alias:	MAP4K4(phospho S631); p-MAP4K4(phospho S631); Hepatocyte progenitor kinase like/germinal center kinase like kinase; HGK; HPK/GCK like kinase; HPK/GCK like kinase HGK; KIAA0687; MAPK/ERK kinase kinase kinase 4; MEK kinase kinase 4; MEKKK 4; MEKKK4; Mitogen activated protein kinase kinase kinase kinase 4; Nck interacting kinase; NIK.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	142kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human MAP4K4 around the phosphorylation site of Ser631:SR(p-S)PV
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:

MAP4K4 (Mitogen-activated protein kinase kinase kinase 4) belongs to the serine/threonine protein kinase family and specifically activates MAPK8/JNK. It may play a role in the response to environmental stress and is thought to function through the MAP3K7-MAP2K4-MAP2K7 kinase cascade, and mediate the TNF alpha signaling pathway. It interacts with the SH3 domain of the adapter protein Nck. MAP4K4-dependent signaling inhibits PPARG responsive gene expression, adipogenesis, and insulin stimulated glucose transport.

Function:

Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr-322.

Subunit:

Interacts with the SH3 domain of the adapter proteins Nck (By similarity). Interacts (via its CNH regulatory domain) with ATL1 (via the N-terminal region). Interacts with RAP2A (GTP-bound form preferentially).

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Appears to be ubiquitous. Expressed in all tissue types examined. Isoform 5 appears to be more abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.

Contains 1 CNH domain.

Contains 1 protein kinase domain.

SWISS:

O95819

Gene ID:

9448

Database links:

[Entrez Gene: 9448](#)Human

[Omim: 604666](#)Human

[SwissProt: O95819](#)Human

[Unigene: 431550](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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