



## Rabbit Anti-phospho-MAP4K4 (Ser801) antibody

SL5493R

<b>Product Name:</b>	phospho-MAP4K4 (Ser801)
<b>Chinese Name:</b>	磷酸化丝裂原活化蛋白激酶MAP4K4抗体
<b>Alias:</b>	MAP4K4(phospho Ser801); MAP4K4(phospho S801); 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.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=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.
<b>Molecular weight:</b>	142kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human MAP4K4 around the phosphorylation site of Ser801:AS(p-S)LN
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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

[Oimim: 604666](#)Human

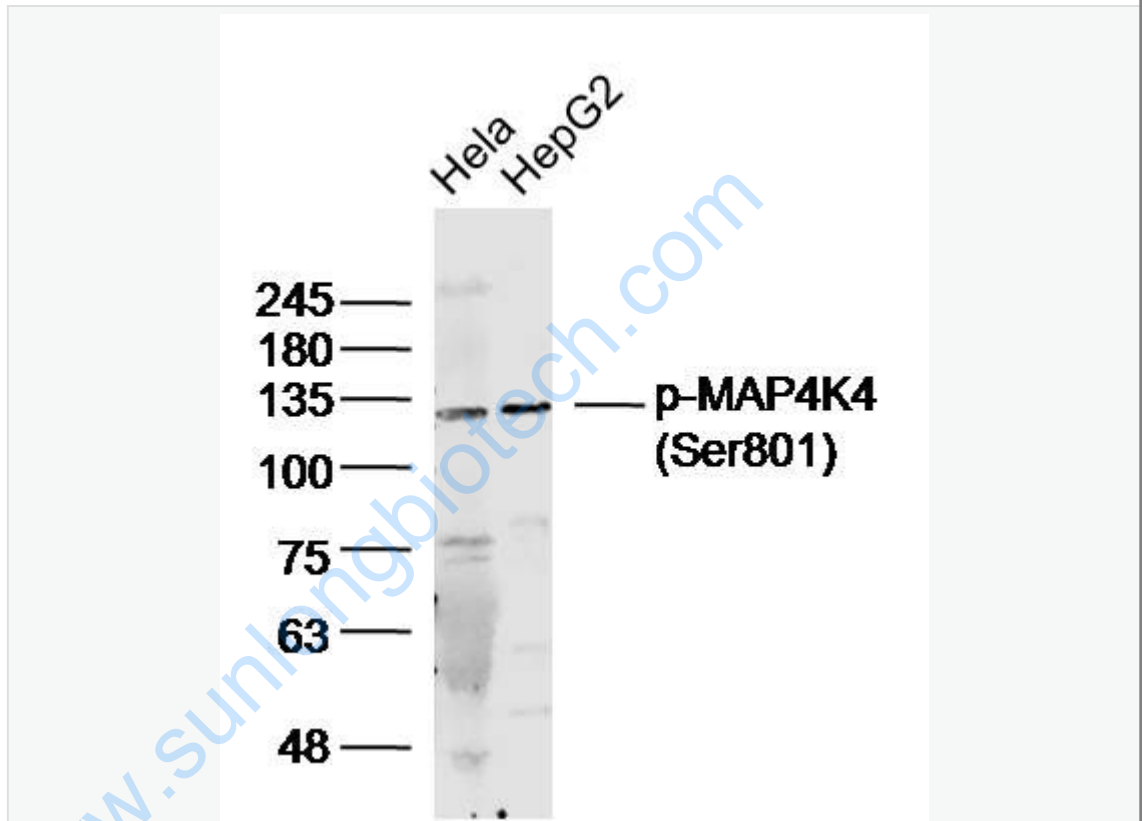
[SwissProt: O95819](#)Human

[Unigene: 431550](#) Human

**Important Note:**

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

Picture:



Sample:

Hela Cell (Human) Lysate at 30 ug

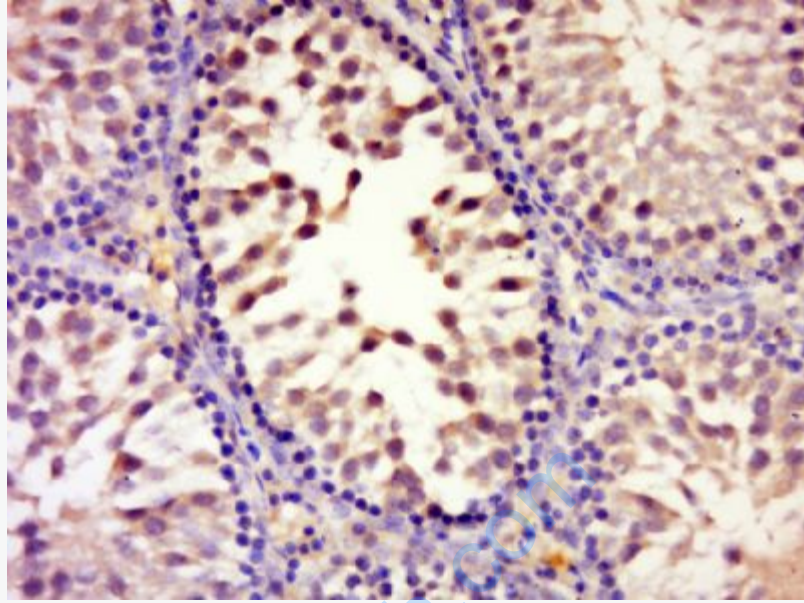
HepG2 Cell (Human) Lysate at 30 ug

Primary: Anti- p-MAP4K4 (Ser801) (SL5493R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 142kD

Observed band size: 135kD



Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-MAP4K4) Polyclonal Antibody, Unconjugated (SL5493R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.