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Phospho-MAP2K4-S257 Rabbit mAb

Catalog No.: AP1491 **Recombinant**

Basic Information

Observed MW
44kDa

Calculated MW
44kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC,IP

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC66577

Background

This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB	1:1000 - 1:5000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
6416

Swiss Prot
P45985

Immunogen
A synthetic phosphorylated peptide around S257 of human MAP2K4 (NP_003001.1).

Synonyms
JNKK; MEK4; MKK4; SEK1; SKK1; JNKK1; SERK1; MAPKK4; PRKMK4; SAPKK1; SAPK-1

Contact

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Product Information

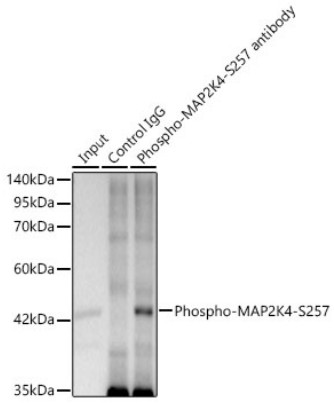
Source
Rabbit

Isotype
IgG

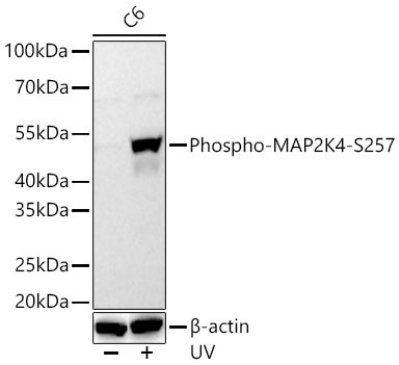
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

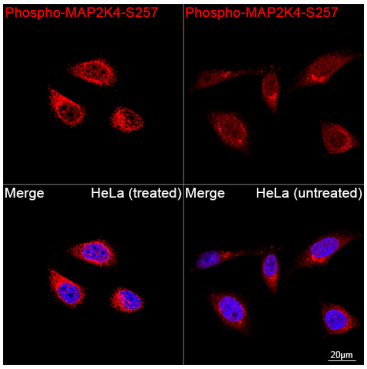
Validation Data



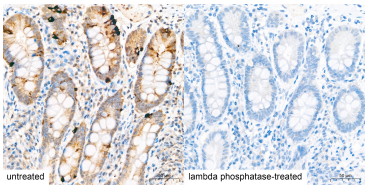
Immunoprecipitation of Phospho-MAP2K4-S257 from 200 µg extracts of HeLa cells treated by UV (100 mJ/cm2, 4 hours) was performed using 0.5 µg of Phospho-MAP2K4-S257 Rabbit mAb (AP1491). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:1000.



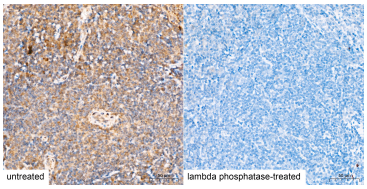
Western blot analysis of lysates from C6 cells using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at 1:2600 dilution incubated overnight at 4℃. C6 cells were treated by UV (90mJ/cm2) at room temperature and recovered for 2 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Confocal imaging of HeLa cells (treated with UV) and HeLa cells (untreated) using Phospho-MAP2K4-S257 Rabbit mAb (AP1491, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

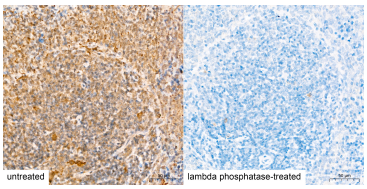


Immunohistochemistry analysis of paraffin-embedded Human colon tissue, Untreated (left) and lambda phosphatase-treated (right), using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

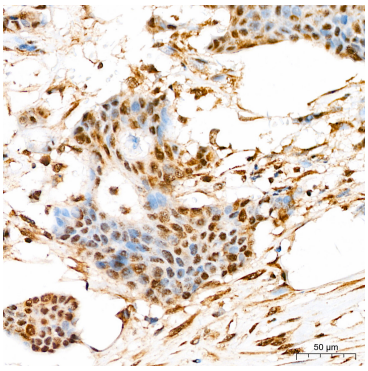


Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue, Untreated (left) and lambda phosphatase-treated (right), using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

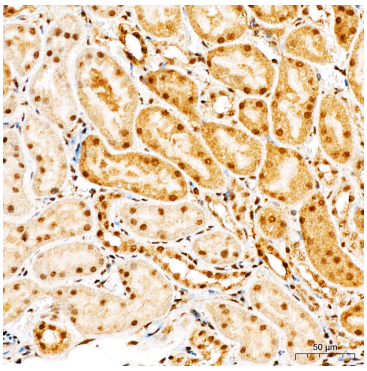
Validation Data



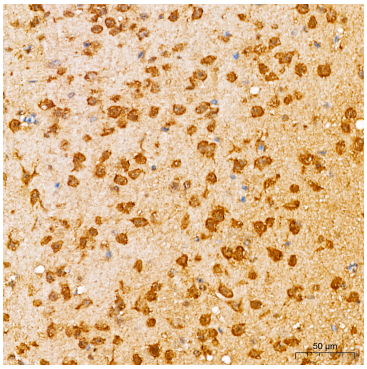
Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue, Untreated (left) and lambda phosphatase-treated (right), using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Phospho-MAP2K4-S257 Rabbit mAb (AP1491) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.