Leader in Biomolecular Solutions for Life Science

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Phospho-MAP2K1-S298 Antibody kit

Catalog No.: RK04078

Basic Information

Observed MW
43kDa

Calculated MW
43kDa

Category
Primary antibody

Recommended Dilutions

AP0063 WB	1:500 - 1:2000
A12687 WB	1:1000 - 1:3000

For more information please visit *www.abclonal.com*

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Contact

400-999-6126

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www.abclonal.com.cn

Background

The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.

Component

Catalog No.	Product Name	Applications	Cross-Reactivity
AP0063	Phospho-MEK1-S298 Rabbit pAb	ELISA,WB,IP	Human, Mouse, Rat
A12687	[KO Validated] MEK1 Rabbit pAb	ELISA,WB,IHC-P	Human, Mouse, Rat

Immunogen Information

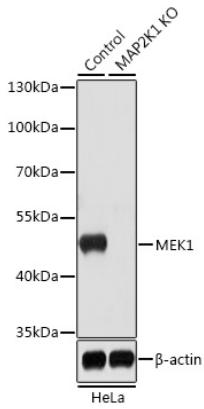
Gene ID
5604

Swiss Prot
Q02750

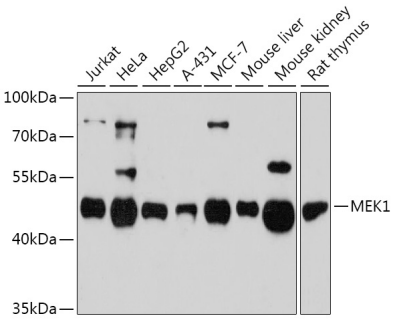
Immunogen
A synthetic phosphorylated peptide around S298 of human MEK1 (NP_002746.1).
A synthetic peptide corresponding to a sequence within amino acids 1-100 of human MEK1 (NP_002746.1).

Synonyms
CFC3;MAPKK1;MEK1;MKK1;PRKMK1;MAP2K1

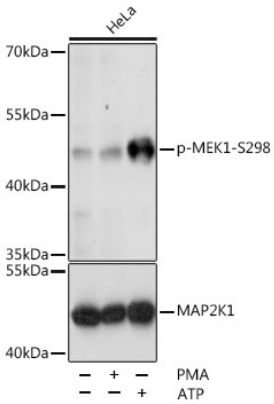
Validation Data



Western blot analysis of lysates from wild type (WT) and MEK1 knockout (KO) HeLa cells, using [KO Validated] MEK1 Rabbit pAb (A12687) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.

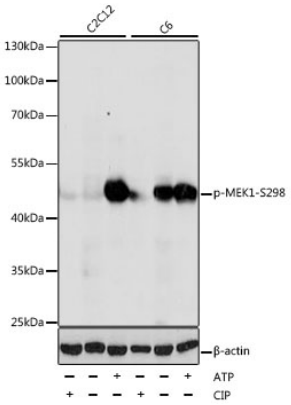


Western blot analysis of various lysates using [KO Validated] MEK1 Rabbit pAb (A12687) at 1:3000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 90s.

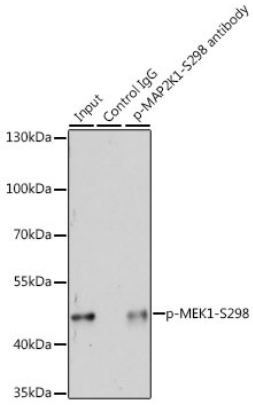


Western blot analysis of various lysates using Phospho-MEK1-S298 Rabbit pAb (AP0063) at 1:1000 dilution or MEK1 antibody (A12687). HeLa cells were treated by PMA/TPA (200 nM) at 37℃ for 15 minutes after serum-starvation overnight or treated by ATP(5 mM) at 30℃ for 1 hour.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

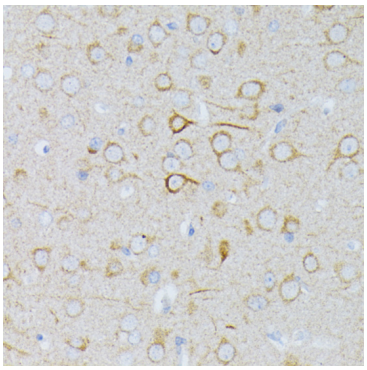
Validation Data



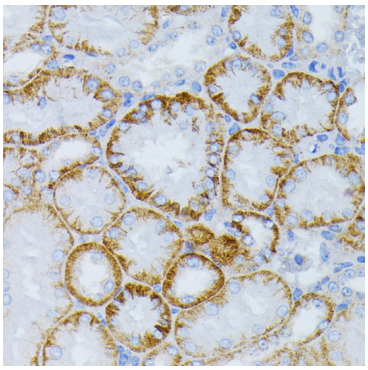
Western blot analysis of various lysates using Phospho-MEK1-S298 Rabbit pAb (AP0063) at 1:1000 dilution. C2C12 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour or treated by ATP(5 mM) at 30℃ for 1 hour. C6 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour or treated by ATP(5 mM) at 30℃ for 1 hour.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg Phospho-MEK1-S298 pAb (AP0063). Western blot was performed from the immunoprecipitate using Phospho-MEK1-S298 pAb (AP0063) at a dilution of 1:1000. 293T cells were treated by PMA/TPA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.



Immunohistochemistry analysis of MEK1 in paraffin-embedded Rat brain using [KO Validated] MEK1 Rabbit pAb (A12687) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of MEK1 in paraffin-embedded mouse kidney using [KO Validated] MEK1 Rabbit pAb (A12687) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.