MEK1(Phospho-Ser221) Antibody

Catalog No: #11161

Package Size: #11161-1 50ul #11161-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	MEK1(Phospho-Ser221) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of MEK1 only when phosphorylated at serine 221.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 221 (A-N-S(p)-F-V) derived from Human MEK1.
Conjugates	Unconjugated
Target Name	MEK1
Modification	Phospho
Other Names	ERK activator kinase 1; MAP kinase kinase 1; MAP2K1; MAPK/ERK kinase 1; MAPKK 1
Accession No.	Swiss-Prot: Q02750NCBI Protein: NP_002746.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

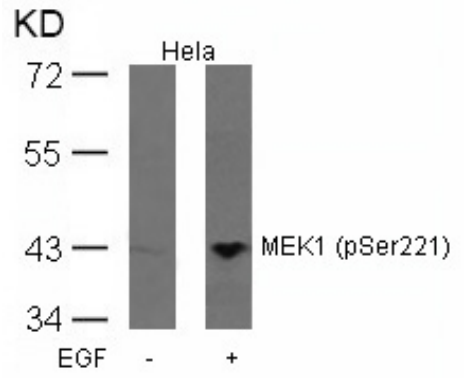
Predicted MW: 45kd

Western blotting: 1:500~1:1000

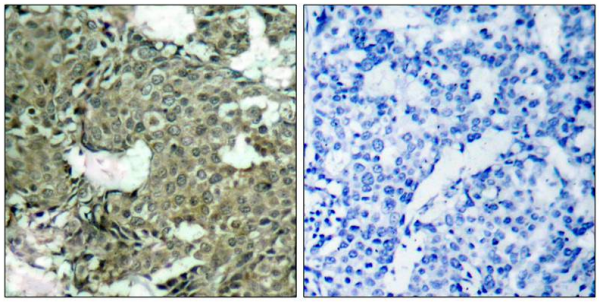
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

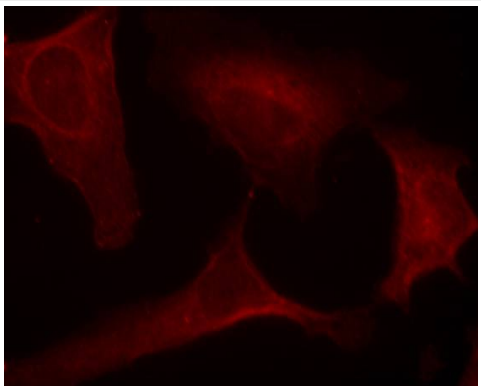
Images



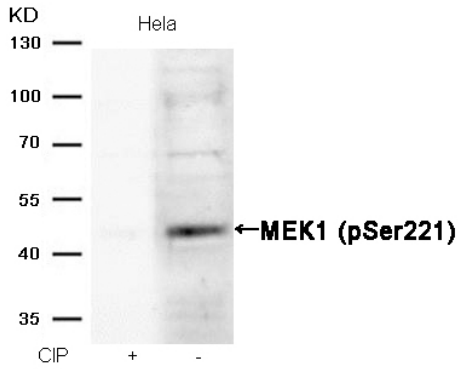
Western blot analysis of extracts from Hela cells untreated or treated with EGF using MEK1(Phospho-Ser221) Antibody #11161.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEK1(Phospho-Ser221) Antibody #11161(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using MEK1(Phospho-Ser221) Antibody #11161.



Western blot analysis of extracts from Hela cells, treated with calf intestinal phosphatase (CIP), using MEK1 (Phospho-Ser221) Antibody #11161.

Background

Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates ERK1 and ERK2 MAP kinases.

Zebisch A, et al. (2006) Cancer Res; 66(7): 3401-8.

Luciano BS, et al. (2006)J Biol Chem; 279(50): 52117-23.

Wang X, et al. (2003) Oncogene; 22(1): 109-16.

Gopalbhai K, et al. (2003) J Biol Chem; 278(10): 8118-25.

Ling MT, et al. (2002)Oncogene; 21(55): 8498-505.

Published Papers

el at., MicroRNA-146b, a sensitive indicator of mesenchymal stem cell repair of acute renal injury. In Stem Cells Transl Med on 2016 Oct by Yuan Zhu, Jing Yu, et al..PMID: 27400799

, , (2016)

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el at., Magnesium deprivation inhibits a MEK RK cascade and cell proliferation in renal epithelial Madin-Darby canine kidney cells. In Life Sci on 2010 May 8 by Akira Ikari, Kosuke Atomi, et al..PMID: 20338184, , (2010)

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Akira Ikari, Kosuke Atomi, Keishi Kinjo el at., Magnesium deprivation inhibits a MEK CERK cascade and cell proliferation in renal epithelial Madin-Darby canine kidney cells., Life Sciences, 86: 766η— C773(2010)

PMID:20338184

Note: This product is for in vitro research use only and is not intended for use in humans or animals.