

35-1154: Polyclonal Antibody to MEK1 (Phospho-Ser221)

Clonality :	Polyclonal
Application :	WB,IHC,IF
Reactivity :	Human,Mouse,Rat
Gene :	MAP2K1
Gene ID :	5604
Uniprot ID :	Q02750
Format :	Purified
Alternative Name :	ERK activator kinase 1, MAP kinase kinase 1, MAP2K1, MAPK/ERK kinase 1, MAPKK 1
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of serine 221 (A-N-S(p)-F-V) derived from Human MEK1.

Description

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) 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.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 45kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

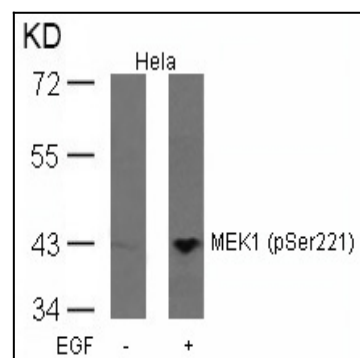


Figure 1: Western blot analysis of extracts from HeLa cells untreated or treated with EGF using MEK1(Phospho-Ser221) Antibody 35-1154 .

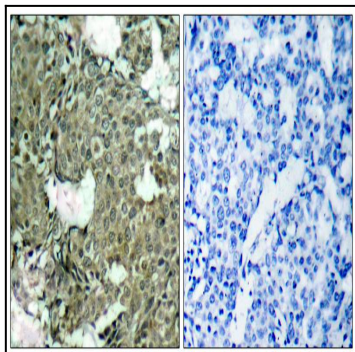


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MEK1(Phospho-Ser221) Antibody 35-1154 (left) or the same antibody preincubated with blocking peptide(right).

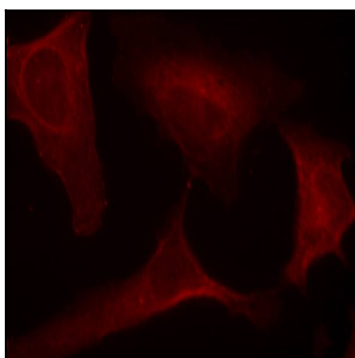


Figure 3: Immunofluorescence staining of methanol-fixed HeLa cells using MEK1(Phospho-Ser221) Antibody 35-1154 .

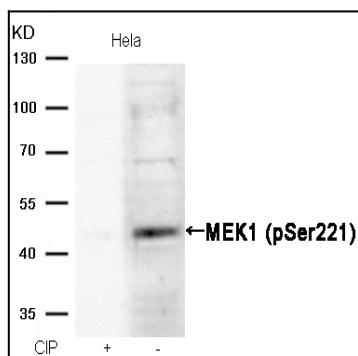


Figure 4: Western blot analysis of extracts from HeLa cells, treated with calf intestinal phosphatase (CIP), using MEK1 (Phospho-Ser221) Antibody 35-1154 .