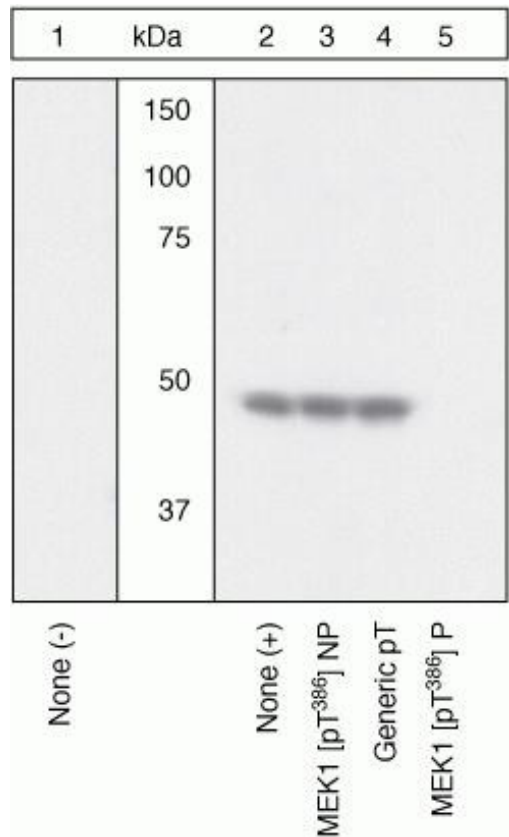


Phospho-MEK1 (Thr386) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human MEK1 that contains threonine 386. The sequence is conserved in many species including mouse, rat, chimp, hamster, and rabbit.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533658

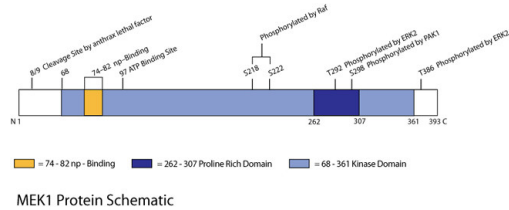
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-

Product Images For Phospho-MEK1 (Thr386) Polyclonal Antibody



Phospho-MEK1 (Thr386) Antibody (44-462G) in WB

Peptide Competition and Upregulation Extracts of NIH3T3 cells untreated (1) or treated with 50 ng/mL PDGF for 15 minutes (2-5) were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 4% BSA-TBST buffer for one hour at room temperature, then incubated with the MEK1 (pT386) antibody in a 1% BSA-TBST buffer for two hours at room temperature, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the phosphopeptide immunogen (3), a generic phosphothreonine-containing peptide (4), or the phosphopeptide immunogen (5). After washing, the membrane was incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to MEK1 (pT386) blocks the antibody signal, demonstrating the specificity of the antibody. The data also show the upregulation of MEK1 (pT386) upon PDGF treatment in this cell system.



Phospho-MEK1 (Thr386) Antibody (44-462G)

MEK Protein Schematic-Originally cloned from mouse cDNA, MEK1 (MAP kinase kinase-1) is a 43.5 kDa protein which phosphorylates ERK1&2 in the MAP kinase signaling pathway. Soon after the discovery of MEK1, MKK1 (the human homologue) was cloned. Like ERK1&2, MEK1 is primarily involved in cell growth and differentiation through its regulation of the cell cycle. G-proteins such as MEKK (MEK kinase) or Raf phosphorylate MEK1/2 at serine residues in order to activate the enzymatic activity of the protein. In 1999, Sebolt-Leopold, found that MEK1/2 overexpression was linked to cellular transformation, which sparked investigation of possible therapeutic potentials for MEK1/2 inhibitors. Several inhibitors including U-0126 and PD98059 were developed and have shown promising results as therapies for cancer and other diseases.

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