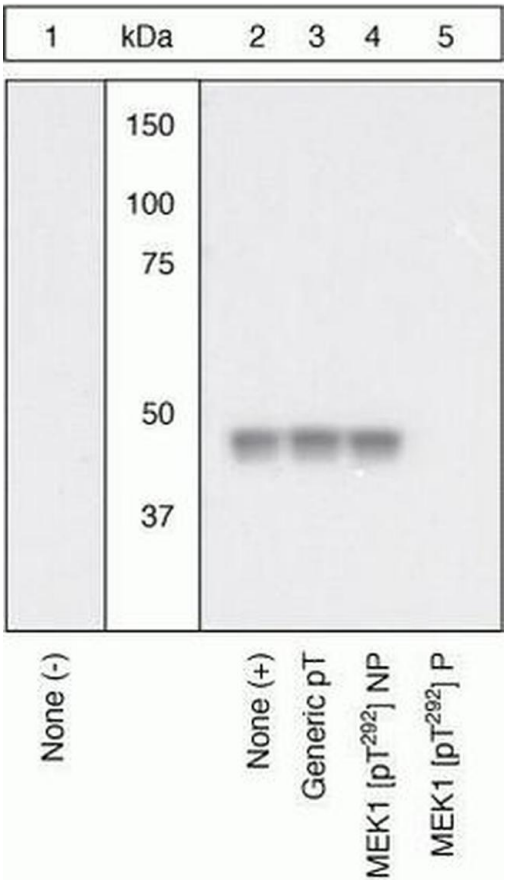
Phospho-MEK1 (Thr292) Polyclonal Antibody

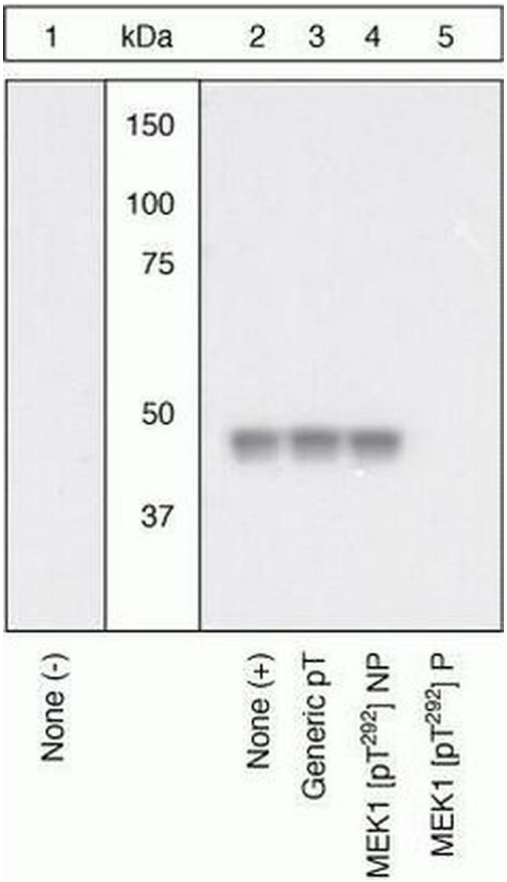
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human MEK1 that contains threonine 292. 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_2533656

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunocytochemistry (ICC/IF)	1:250	-

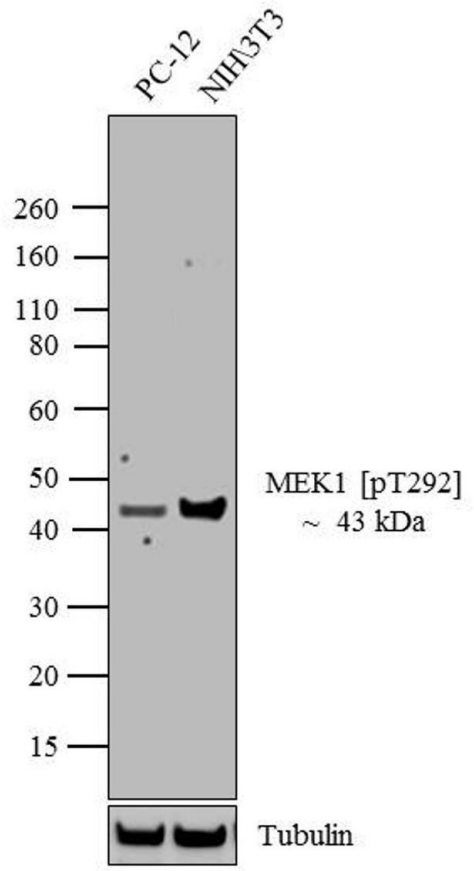
Product Images For Phospho-MEK1 (Thr292) Polyclonal Antibody



Phospho-MEK1 (Thr292) Antibody (44-458G) in WB
Peptide Competition Extracts of NIH3T3 cells untreated (lane 1) or treated with 50 ng/mL PDGF for 15 minutes (lanes 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 [pT292] antibody (Product # 44-458G) in a 1% BSA-TBST buffer for two hours at room temperature, following prior incubation with: no peptide (1, 2), a generic phosphothreonine-containing peptide (3), the non-phosphopeptide corresponding to the phosphopeptide immunogen (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 [pT292] blocks the antibody signal, demonstrating the specificity of the antibody. The data also show the induction of MEK1 [pT292] phosphorylation by the addition of PDGF to this cell system. In addition, this antibody did not recognize a recombinant MEK1 T292A mutant protein (kindly provided by Dr. Natalie Ahn, University of Colorado), further demonstrating its specificity for MEK1 [pT292] (data not shown).



Phospho-MEK1 (Thr292) Antibody (44-458G)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-MEK1 (Thr292) using MEK1 [pT292] Rabbit Polyclonal Antibody (Product # 44-458G), shows increase in expression Phospho-MEK1 (Thr292)in NIH3T3 cells treated with PDGF. {TM}



Phospho-MEK1 (Thr292) Antibody (44-458G) in WB
Western blot analysis of MEK1 (pT292) was performed by loading 20 µg of PC-12 (lane1) and NIH\u0003T3 (lane2) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® 2 Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. MEK1 (pT292) was detected at ~ 43 kDa using MEK1 (pT292) Rabbit Polyclonal Antibody (Product # 44-244G) at 1:1000 dilution in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Rabbit IgG - HRP Secondary Antibody (G21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

View more figures on thermofisher.com

1 Reference

Western Blot (1)

Acta pharmacologica Sinica

The important roles of RET, VEGFR2 and the RAF/MEK/ERK pathway in cancer treatment with sorafenib.

Authors: Mao WF,Shao MH,Gao PT,Ma J,Li HJ,Li GL,Han BH,Yuan CG

Year
2012

Species
Human