

# Phospho-MEK1 (Thr386) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr386 of human MAP2K1 conjugated to KLH
Form	Liquid
Purification	Affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_560048

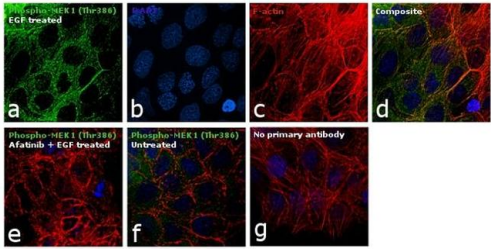
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:250	-

## Product Specific Information

This antibody is predicted to react with bovine, canine, chicken, mouse, non-human primate and Xenopus based on 100% sequence homology.

This antibody is specific for the ~45 kDa MEK 1 protein phosphorylated at Thr386 in Western blots of human brain extracts.

Product Images For Phospho-MEK1 (Thr386) Polyclonal Antibody

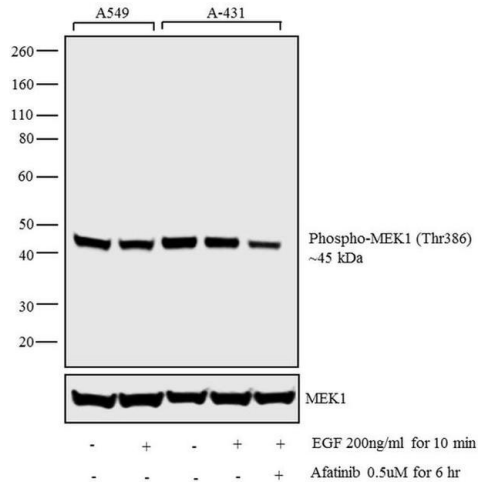


Phospho-MEK1 (Thr386) Antibody (PA1-4631)

Detection of altered expression of the target protein by TM demonstrates antibody specificity. Immunofluorescence analysis of Phospho-MEK1(Thr386) using Phospho-MEK1 (Thr386) Rabbit Polyclonal Antibody (Product # PA1-4631) shows induction of Phospho-MEK1 (Thr386) expression in A-431 cell line upon EGF treatment. Pre-treatment with antagonist, Afatinib resulted in inhibition of EGFR phosphorylation upon EGF treatment. {TM}

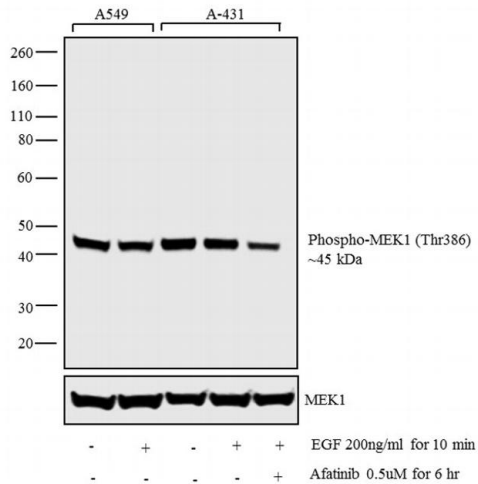
Phospho-MEK1 (Thr386) Antibody (PA1-4631) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (1), A549 treated with EGF (200 ng/mL for 10 minutes) (2), A-431 (3), A-431 treated with EGF (200 ng/mL for 10 minutes) (4) and A-431 treated with Afatinib followed by EGF (0.5 uM of Afatinib for 6 hours, 200 ng/mL of EGF for 10 minutes) (5). The blot was probed with Anti-Phospho-MEK1 (Thr386) Rabbit Polyclonal Antibody (Product # PA1-4631, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 45 kDa band corresponding to Phospho-MEK1 (Thr386) was detected. Pre-treatment with EGFR-antagonist, Afatinib, resulted in inhibition of Phospho-MEK1 (Thr386) in A-431 cell line. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Phospho-MEK1 (Thr386) Antibody (PA1-4631)

Altered expression of proteins upon TM demonstrates antibody specificity. Western blot using Phospho-MEK1 (Thr386) polyclonal antibody (Product # PA1-4631), shows inhibited expression of MEK1 phosphorylated at the Thr386 site in A-431 cell line upon treatment with EGFR-antagonist, Afatinib followed by EGF treatment. {TM}



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