Phospho-MEK1 (Thr386) Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human MAP2K1 (aa 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. (Antigen similar to 44-462G))
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2632983

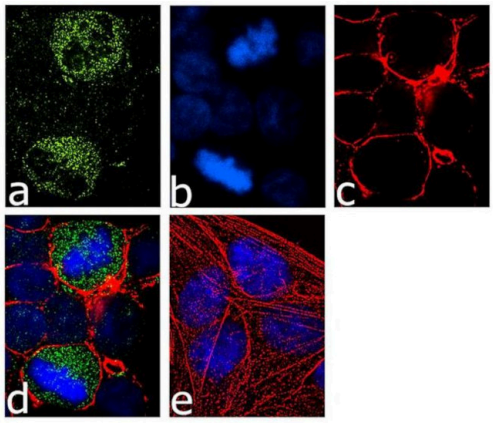
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-

Product Specific Information

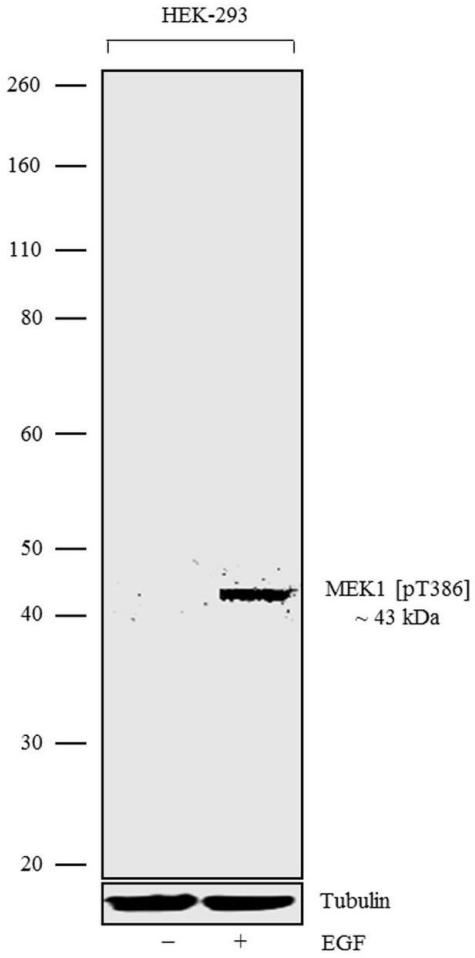
This antibody is predicted to react with Monkey, Bovine and Pig.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

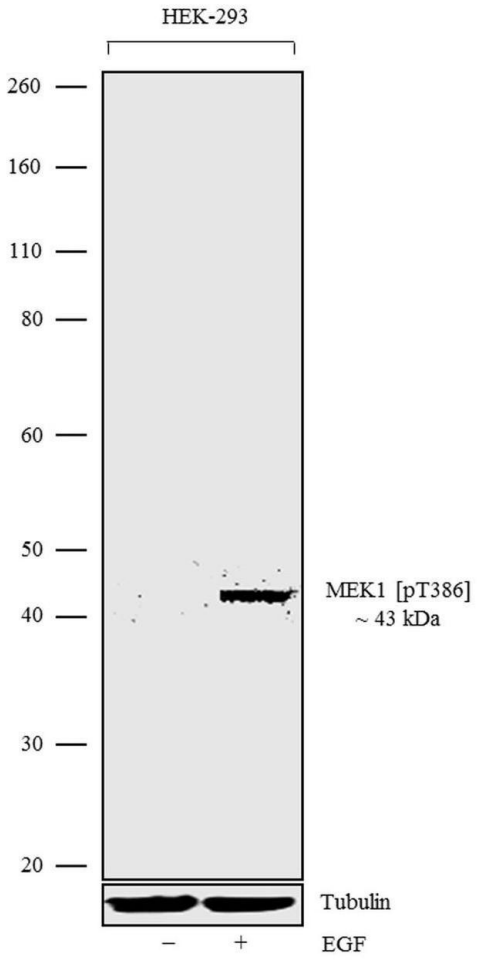
Product Images For Phospho-MEK1 (Thr386) Recombinant Polyclonal Antibody



Phospho-MEK1 (Thr386) Antibody (711612) in ICC/IF
For immunofluorescence analysis, HeLa cells were fixed and permeabilized for detection of endogenous Mek1 pT386 using Anti- Mek1 pT386 Recombinant Rabbit Polyclonal Antibody (Product # 711612, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Mek1 pT386 (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating localization of Mek1 pT386 in dividing cells. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Phospho-MEK1 (Thr386) Antibody (711612)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of MEK1 [pT386] using Anti-MEK1 [pT386] Recombinant Rabbit Polyclonal Antibody (Product # 711612), shows expression of MEK1 [pT386] in HEK-293 upon treatment with EGF. {TM}



Phospho-MEK1 (Thr386) Antibody (711612) in WB
Western blot analysis was performed on Whole cell extracts (30 µg lysate) of HEK-293 (Lane 1) and HEK-293 treated with EGF (100 ng/mL for 30 mins) (Lane 2). The blots were probed with Anti-MEK1 (pT386) Recombinant Rabbit Polyclonal Antibody (Product # 711612, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 43 kDa band corresponding to MEK1 (pT386) was observed across the cell lines tested. 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® 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).