

MEK1 Polyclonal Antibody

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat, Xenopus
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide derived from the N-terminus of human Mek1 protein
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10983180

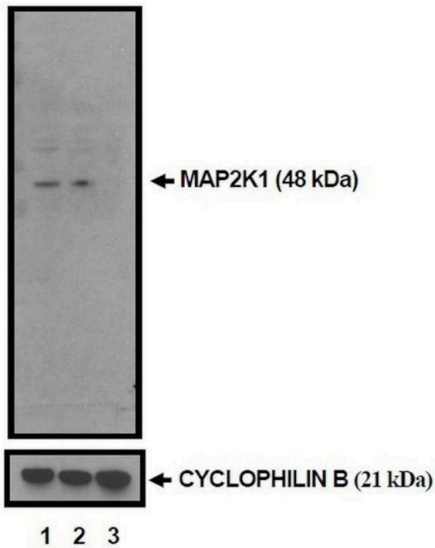
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

PA5-16556 targets MEK-1 in WB applications and shows reactivity with mouse, Rat, Xn, and Human samples.

The PA5-16556 immunogen is a synthetic peptide derived from the N-terminus of human Mek1 protein.

Product Images For MEK1 Polyclonal Antibody

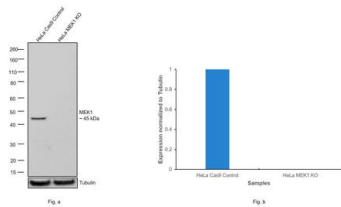


MEK1 Antibody (PA5-16556)

The specificity of anti-MAP2K1 rabbit polyclonal antibody (Product # PA5-16556) was demonstrated by siRNA knockdown. Western blot analysis of A549 cells extracts using this antibody showed decreased level of MAP2K1 protein expression in cells transfected with MAP2K1 specific siRNA (lane 3) but not in controls (lane 1 and 2). {KD}

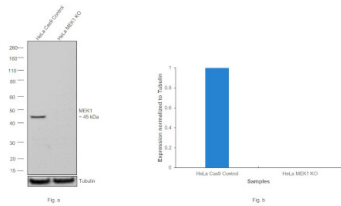
MEK1 Antibody (PA5-16556) in WB

Knockout of MEK1 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR934388_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of MEK1 was performed by loading 30 µg of HeLa Cas9 (Lane 1), and HeLa MEK1 KO (Lane 2) whole cell extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-MEK1 Polyclonal Antibody (Product # PA5-16556, 1 µg/mL dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to MEK1.



MEK1 Antibody (PA5-16556)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in MEK1 KO cell line compared to control cell line using Anti-MEK1 Polyclonal Antibody (Product # PA5-16556). {KO}



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Western Blot (1)

Human molecular genetics	Year 2022
C/D box snoRNA SNORD113-6/AF357425 plays a dual role in integrin signalling and arterial fibroblast function via pre-mRNA processing and 2'O-ribose methylation.	
"Published figure using MEK1 polyclonal antibody (Product # PA5-16556) in Western Blot"	
Authors: van Ingen E,van den Homberg DAL,van der Bent ML,Mei H,Papac-Milicevic N,Kremer V,Boon RA,Quax PHA, Wojta J,Nossent AY	

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