

MEK3 Polyclonal Antibody

Catalog NumberPA1-28434

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunoprecipitation (IP)	1:1,500-1:2,500
Type	Antibody	Western Blot (WB)	1:1,500-1:2,500
Immunogen	Recombinant protein - full length human MKK3	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.2		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA1-28434 detects MKK3 from human samples.

Background/Target Information

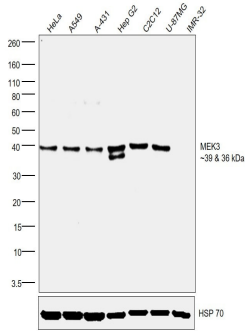
MAP2K3 (MEK3) is a dual-specificity protein kinase which acts in cellular signal transduction pathways, and is necessary for the expression of glucose transporter. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for MEK3.

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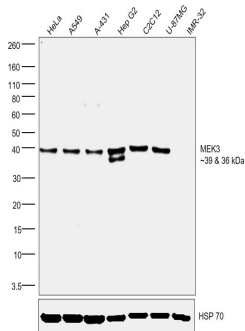
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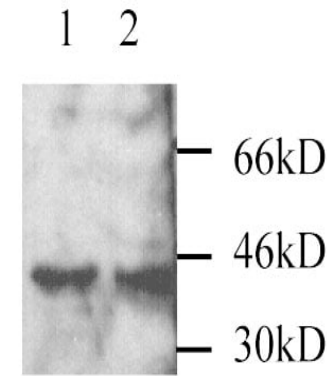
MEK3 Antibody (PA1-28434)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue tested owing to their inherent genetic constitution. Relative expression of MEK3 was observed across cell lines tested as compared to low to negative expression in IMR-32 and using anti-MEK3 Polyclonal Antibody (Product # PA1-28434) in Western Blot. {RE}



MEK3 Antibody (PA1-28434) in WB

Western blot was performed using anti-MEK3 Polyclonal Antibody (Product # PA1-28434) and 39 kDa, 36 kDa bands corresponding to MEK3 were observed across the cell lines tested except IMR-32 which is reported to be negative. Whole cell extracts of (30 µg lysate) of HeLa (Lane 1), A549 (Lane 2), A-431 (Lane 3), Hep G2 (Lane 4), C2C12 (Lane 5), U-87MG (Lane 6) and IMR-32 (Lane 7) were electrophoresed using Novex®, NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by XCell SureLock™ Mini-Cell and XCell II™ Blot Module (Product # EI0002).The blot was probed with the primary antibody (1:2000 Dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036).Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



MEK3 Antibody (PA1-28434) in WB

Western blot detection of MKK3 protein in RAW cell (1) and RBL transfected with NIK (2) using MEK3 Polyclonal Antibody (Product # PA1-28434).

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