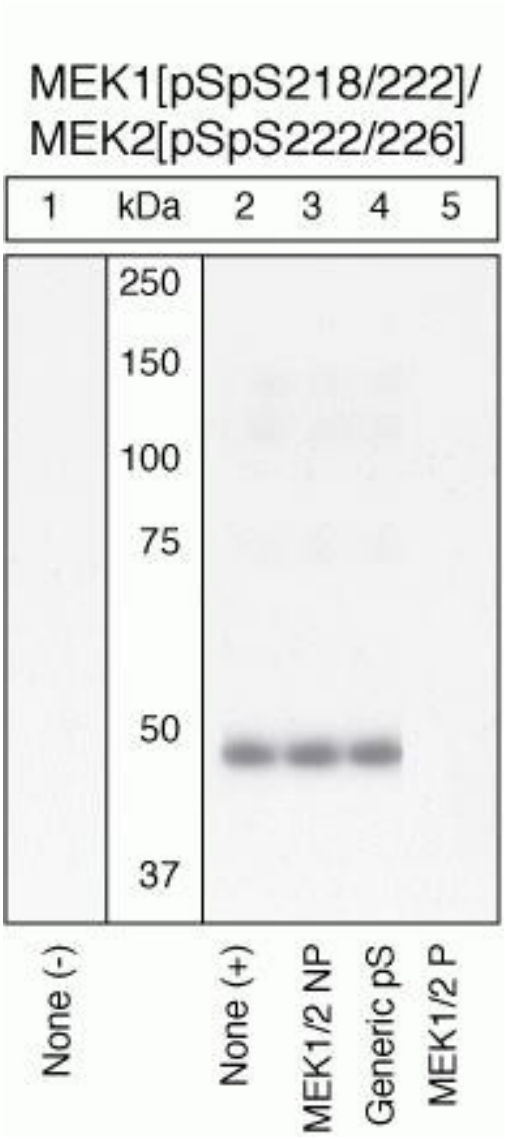
Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) Polyclonal Antibody

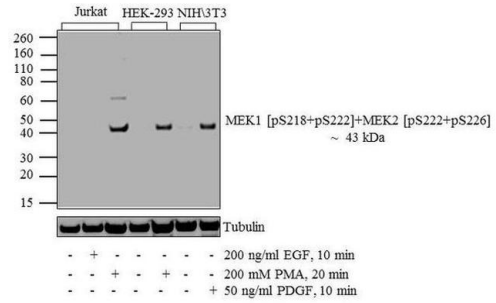
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide derived from a region of human MEK1 that contains serine 218 and serine 222
Form	Liquid
Purification	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_2533655

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-

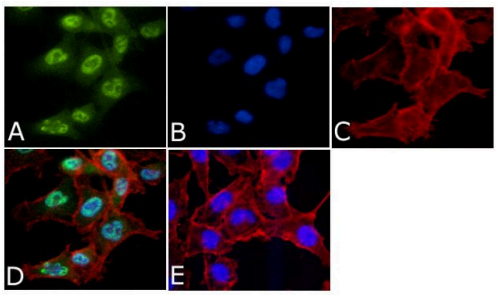
Product Images For Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) Polyclonal Antibody



Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) Antibody (44-454G) in WB
Peptide Competition and Stimulation Extracts of HeLa cells untreated (1) or treated with 200 ng/mL PMA for 10 minutes (2-5) were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% milk-TBST buffer for 1 hour at RT, then incubated with the MEK1 (pSpS218/222)/MEK2 (pSpS222/226) antibody at 4°C in a 3% milk-TBST buffer, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the phosphopeptide immunogen (3), a generic phosphoserine-containing peptide (4), or the phosphopeptide immunogen (5). After washing, the membrane was incubated with goat F (ab')2 anti-rabbit IgG alkaline phosphatase (Product # ALI4405) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to MEK1 (pSpS218/222)/MEK2 (pSpS222/226) blocks the antibody signal, demonstrating the specificity of the antibody. The data also show the induction of MEK1 (pSpS218/222)/MEK2 (pSpS222/226) phosphorylation by the addition of PMA to this cell system.



Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) Antibody (44-454G)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) using anti-MEK1 [pS218]/[pS222] + MEK2 [pS222]/[pS226] Rabbit Polyclonal Antibody (Product # 44-454G), shows increase in expression Phospho-MEK1 /MEK2 (Ser218, Ser222, Ser226) in Jurkat cells and HEK293 cells treated with PMA and NIH3T3 cells treated with PDGF. {TM}



Phospho-MEK1/MEK2 (Ser218, Ser222, Ser226) Antibody (44-454G) in ICC/IF
Immunofluorescent analysis of Phospho- MEK1 (pSpS 218/222)/MEK2 (pSpS222 /226) Antibody was done on 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Phospho- MEK1 (pSpS 218/222)/MEK2 (pSpS222/226) Antibody (Product # 44-454G) at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat Anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1: 400 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing nuclear localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.

View more figures on thermofisher.com

2 References

Western Blot (2)

Nature

Fat1 deletion promotes hybrid EMT state, tumour stemness and metastasis.

"44-454G was used in Western Blot to demonstrate that deletion of Fat1, which encodes a protocadherin, promotes malignant progression by controlling cell polarity and adhesion between tumour cells, and between tumour cells and the extracellular matrix."

Authors: Pastushenko I,Mauri F,Song Y,de Cock F,Meeusen B,Swedlund B,Impens F,Van Haver D,Opitz M,Thery M, Bareche Y,Lapouge G,Vermeersch M,Van Eycke YR,Balsat C,Decaestecker C,Sokolow Y,Hassid S,Perez-Bustillo A, Agreda-Moreno B,Rios-Buceta L,Jaen P,Redondo P,Sieira-Gil R,Millan-Cayetano JF,Sanmatrtin O,D'Haene N,Moers V, Rozzi M,Blondeau J,Lemaire S,Scozzaro S,Janssens V,De Troya M,Dubois C,Pérez-Morga D,Salmon I,Sotiriou C, Helmbacher F,Blanpain C

Year
2021

Species
Mouse

Dilution
1:1000

Journal of immunology (Baltimore, Md. : 1950)

Toll-like receptor-mediated production of IL-1Ra is negatively regulated by GSK3 via the MAPK ERK1/2.

Authors: Rehani K,Wang H,Garcia CA,Kinane DF,Martin M

Year
2009

Species
Human