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Product datasheet for CF804233

PRAK (MAPKAPK5) Mouse Monoclonal Antibody [Clone ID: OTI1B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B3
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 197-471 of human MAPKAPK5 (NP_003659) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	MAPK activated protein kinase 5
Database Link:	NP_003659 Entrez Gene 17165 MouseEntrez Gene 498183 RatEntrez Gene 8550 Human Q8IW41

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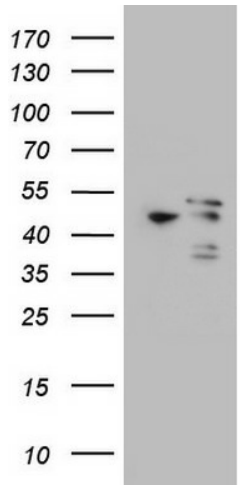
Background: The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov

Synonyms: MAPKAP-K5; MK-5; MK5; PRAK

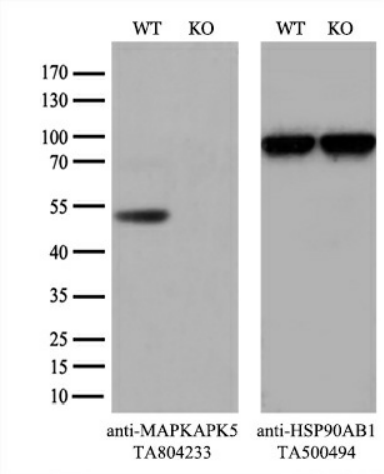
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPKAPK5 (Cat# [RC216715], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPKAPK5(Cat# [TA804233]).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and MAPKAPK5-Knockout HEK293T cells (KO, Cat# [LC840636]) were separated by SDS-PAGE and immunoblotted with anti-MAPKAPK5 monoclonal antibody [TA804233] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.