For Research Use Only

Phospho-MEK1 (Thr292) Monoclonal proteintech antibody



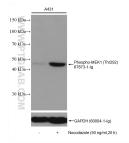
Catalog Number:67873-1-lg

2 Publications

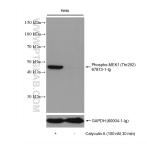
Basic Information	Catalog Number: 67873-1-lg	GenBank Accession Number: BC 139729		Purification Method: Protein G purification		
	Size: Genel D (NCBI 1000 µg/ml 5604		ICBI):	CloneNo.: 2D7A8		
	Source: Mouse			Recommended Dilutions: WB 1:2000-1:10000		
	Isotype: UNIPROT ID: IgG1 Q02750 Full Name: mitogen-activated protein kinase kinase 1 Calculated MW: 43 kDa					
				Observed MW: 40-50 kDa		
				Applications	Tested Applications: Positive Controls: WB, ELISA, FC (Intra)	
	Cited Applications:	ted Applications: HeLa cells, Nocodazole treat			「3 cells, A431 cells, Calyculin A treated Nocodazole treated A431 cells, Calyculin A	
WB treated NIH/3T3 cells, Calyculin A treated HSC-T6 Species Specificity: cells Human, mouse, rat Calyculin A treated HSC-T6			/3T3 cells, Calyculin A treated HSC-T6			
			Cited Species: rat, mouse			
Background Information	MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 phosphorylation that together lead to continuous activation of MEK/ERK signaling pathway. MEK1 bind directly to ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence in MEK is also involved in MEK-ERK association and signal propagation. The coupling between MEK1 and ERK2 is enhanced through phosphorylation on S298 in the MEK1 PR region, whereas phosphorylation on MEK1 T292 releases the complex. MEK1 T292 is a substrate of ERK2, but the site is also phosphorylated at a basal level when ERK2 is inhibited, suggesting several regulators of this site . Although the S298 site in MEK2 has been conserved, it lacks the T292 phosphorylation site, and it is not a substrate of PAK1. (PMID: 31972311, PMID: 17928366, PMID: 22177953)					
Notable Publications	Author	Pubmed ID	Journal	Application		
	Li-Ying Han	38278374	J Ethnopharmacol	, the second s		
	Yin Wang	36693549	J Ethnopharmacol	WB		
Storage	Storage: Store at -20°C. Stable for or Storage Buffer: PBS with 0.02% sodium az Aliquoting is unnecessary	ide and 50% glycerol				

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

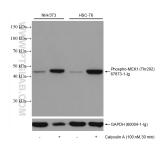
Selected Validation Data



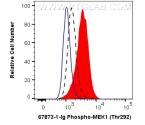
Non-treated A431 and Nocodazole treated A431 cells were subjected to SDS PAGE followed by western blot with 67873-1-Ig (Phospho-MEK1 (Thr292) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated HeLa and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 67873-1-Ig (Phospho-MEK1 (Thr292) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated cells and Calyculin A treated cells were subjected to SDS PACE followed by western blot with 67873-1-1g (Phospho-MEK1 (Thr292) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



1X10^6 Calyculin A treated HeLa cells were intracellularly stained with 0.13 ug Anti-Human Phospho-MEK1 (Thr292) (67873-1-1g, Clone:2D7A8) labeled with FlexAble Coralite® Plus 555 Antibody Labeling Kit for Mouse 1gG1 (KFA022). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.