For Research Use Only

Phospho-MEK1 (Ser298) Monoclonal proteintech antibody



Catalog Number:68047-1-lg

3 Publications

Basic Information	Catalog Number:GenBank Accession Number:68047-1-lgBC139729Size:GeneID (NCBI):		sion Number:	Purification Method: Protein G purification	
				CloneNo.:	
	1000 µg/ml	5604	10	3F10G10	
	Source: Mouse		ENSEMBL Gene ID: Recommended Dilutions: ENSG00000169032 WB 1:5000-1:50000		
	lsotype: lgG1	UNIPROT ID: Q02750			
	Full Name: mitogen-activated protein kinase kinase 1				
		Calculated MW 43 kDa	Calculated MW: 43 kDa		
		Observed MW: 40-50 kDa			
Applications	Tested Applications:		Positive Controls:		
				eLa cells, A431 cells, nocodazole treated A431 Calyculin A treated HeLa cells	
	Species Specificity: Human				
	Cited Species: human, 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 throug 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	
	Chaoqun Li	35798541	ACS Appl Mater Inter		
	Yanmei Peng	38383581	Exp Mol Med	WB	
	Hao Qin	37405911	Cell Rep	WB	
Storage	Storage: Store at -20°C. Storage Buffer: PBS with 0.02% sodium azie	de and 50% glycerol pH 7.	3.		

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 cells and nocodazole treated A431 cells were subjected to SDS PACE followed by western blot with 68047-1-1g (Phospho-MEK1 (Ser298) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. Non-treated HeLa cells and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 68047-1-1g (Phospho-MEK1 (Ser298) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.