For Research Use Only

Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody

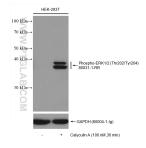
Catalog Number:80031-1-RR 36 Publications

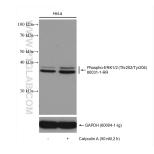


Basic Information	Catalog Number: 80031-1-RR	GenBank Accession Number: NM_002746	Purification Method: Protein A purification	
	Concentration:	GenelD (NCBI):	CloneNo.:	
	1000 ug/ml	5595	8D12	
	Source:	UNIPROT ID:	Recommended Dilutions:	
	Rabbit	P27361	WB 1:2000-1:10000	
	Isotype: Full Name: IgG mitogen-activated protein kinase 3		nase 3	
		Calculated MW: 38-43 kDa		
		Observed MW: 38-40 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, FC (Intra), ELISA Cited Applications: WB, IHC, IF	NIH/3	WB : HEK-293T cells, HeLa cells, Calyculin A treated NIH/3T3 cells, PC-3 cells, Calyculin A treated HeLa cells, Calyculin A treated PC-3 cells	
	Species Specificity: human, mouse			
	Cited Species: human, mouse, rat			
Background Information	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements. The MAPK/ERK cascade plays also a role in initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiate cells by phosphorylating a number of transcription factors. MEK1 and MEK2 activate p44 and p42 through phosphorylation of activation loop residues Thr202/Tyr204 and Thr185/Tyr187, respectively. Several downstream targets of p44/42 have been identified, including p90RSK and the transcription factor Elk-1.			
Notable Publications	Author	Pubmed ID Journal	Application	
	Baiging He	34611079 Aging (Alban		
	Chao Wu	34809653 Chin Med	WB	
	Lu Zhang	36355777 Br J Pharmaco		
Storage	Storage: Store at -20°C. Stable for one	e year after shipment.		
Storage	Storage: Store at -20°C. Stable for one Storage Buffer: PBS with 0.02% sodium azic			

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.

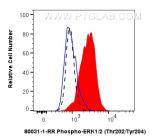
Selected Validation Data





Non-treated HEK-293T and Calyculin A treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 80031-1-RR (Phospho-ERK1/2 (Thr202/Tyr204) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Non-treated HeLa and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80031-1-RR (Phospho-ERK1/2 (Thr202/Tyr204) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10^6 HepG2 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.06 ug Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody (80031-1-RR, Clone:BD12) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.