#14196 Store at +4C

Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (Pacific Blue[™] Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk Mi Dm 7 Pg	Sensitivity: Z Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P27361, #P28482	Entrez-Gene Id: 5595, 5594	
Product Usage Information		Application Flow Cytometry (Fixed/Per	rmeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), le antibody. Protect from ligh		azide and 2 mg/ml BSA.	Store at 4°C. Do not aliquot the	
Specificity/Sensitivity		Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (Pacific Blue™ Conjugate) detects endogenous levels of p44 and p42 MAP kinase (Erk1 and Erk2) when dually phosphorylated at Thr202 and Tyr204 of Erk1 (Thr185 and Tyr187 of Erk2), and singly phosphorylated at Tyr204. The unconjugated antibody does not cross-react with the corresponding phosphorylated residues of either SAPK/JNK or p38 MAP kinase.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr202/Tyr204 of human p44 MAP kinase.				
Description		This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in- house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb #4377.				
Background		kinases involved in many of death. The p44/42 MAPK (extracellular stimuli, includ consider it an important ta sequential three-part prot (MAPKKK or MAP3K), a MA p44/42 MAP3Ks have beer Tpl2/COT. MEK1 and MEK2 and p42 through phospho respectively. Several down	cellular programs, suc Erk1/2) signaling path ding mitogens, growth arget in the diagnosis ein kinase cascade is i N kinase kinase (MAPI n identified, including e are the primary MAPI arylation of activation I stream targets of p44 8,9). p44/42 are negat	h as cell proliferation, dif way can be activated in r a factors, and cytokines (and treatment of cancer nitiated, consisting of a l KK or MAP2K), and a MAI members of the Raf fam KKs in this pathway (5,6). oop residues Thr202/Tyr /42 have been identified ively regulated by a fami	response to a diverse range of 1-3), and research investigators (4). Upon stimulation, a MAP kinase kinase kinase P kinase (MAPK). Multiple ily, as well as Mos and . MEK1 and MEK2 activate p44 204 and Thr185/Tyr187, , including p90RSK (7) and the ily of dual-specificity (Thr/Tyr)	
Background Re		1. Roux, P.P. and Blenis, J. (2. Baccarini, M. (2005) <i>FEB</i> 3. Meloche, S. and Pouysse 4. Roberts, P.J. and Der, C.J 5. Rubinfeld, H. and Seger, 6. Murphy, L.O. and Blenis 7. Dalby, K.N. et al. (1998) 8. Marais, R. et al. (1993) <i>C</i> 9. Kortenjann, M. et al. (19 10. Owens, D.M. and Keyse	25 Lett 579, 3271-7. égur, J. (2007) Oncogel . (2007) Oncogene 26, R. (2005) Mol Biotech , J. (2006) Trends Bioch I Biol Chem 273, 1496- rell 73, 381-93. 194) Mol Cell Biol 14, 44	ne 26, 3227-39. 3291-310. nol 31, 151-74. nem Sci 31, 268-75. 505. 315-24.		
Species Reactiv	ity	Species reactivity is detern	nined by testing in at l	east one approved appli	cation (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Dm: D. melanogaster Z: Zebrafish Pg: Pig				

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