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



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R Mk Mi Dm Z Pg	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P27361, #P28482	Entrez-Gene Id: 5595, 5594	
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			Do not aliquot the	
Specificity / Sensit	endo Tyr20 antibo	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 residues surrounding Thr202/Tyr204 of human p44 MAP kinase.			e corresponding to	
Product Description	for di reacti	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	kinas The p extra consi three MAP3 have are th phosp down (8,9).	es involved in ma p44/42 MAPK (Erk cellular stimuli, ind der it an importan -part protein kinas 3K), a MAP kinas been identified, in the primary MAPKI phorylation of acti stream targets of p44/42 are negat	ein kinases (MAPKs) are a widely ny cellular programs, such as cell k1/2) signaling pathway can be act cluding mitogens, growth factors, a tt target in the diagnosis and treatm se cascade is initiated, consisting of e kinase (MAPKK or MAP2K), and ncluding members of the Raf family Ks in this pathway (5,6). MEK1 and vation loop residues Thr202/Tyr20 p44/42 have been identified, inclu tively regulated by a family of dual- 0), along with MEK inhibitors, such	proliferation, differentiation, mot ivated in response to a diverse r and cytokines (1-3), and researc ment of cancer (4). Upon stimula of a MAP kinase kinase kinase (a MAP kinase (MAPK). Multiple a mAP kinase (MAPK). Multiple a metha and so and Tpl2/COT. MEK2 activate p44 and p42 th 4 and Thr185/Tyr187, respective ding p90RSK (7) and the transc specificity (Thr/Tyr) MAPK phos	ility, and death. range of h investigators tion, a sequential MAPKKK or 9 p44/42 MAP3Ks MEK1 and MEK2 rough ely. Several ription factor Elk-1	
Background Refer	2. Ba 3. Me 4. Ro 5. Ru 6. Mu 7. Da 8. Ma 9. Ko	ccarini, M. (2005) loche, S. and Pot berts, P.J. and De binfeld, H. and Se Irphy, L.O. and Bl Iby, K.N. et al. (19 Irais, R. et al. (199 rtenjann, M. et al.	is, J. (2004) <i>Microbiol Mol Biol Rev</i> <i>FEBS Lett</i> 579, 3271-7. uysségur, J. (2007) <i>Oncogene</i> 26, 3291 eger, R. (2005) <i>Mol Biotechnol</i> 31, enis, J. (2006) <i>Trends Biochem Sc</i> 298) <i>J Biol Chem</i> 273, 1496-505. 93) <i>Cell</i> 73, 381-93. (1994) <i>Mol Cell Biol</i> 14, 4815-24. eyse, S.M. (2007) <i>Oncogene</i> 26, 3.	3227-39. -310. 151-74. i 31, 268-75.		
Species Reactivity	y Specie	es reactivity is det	termined by testing in at least one	approved application (e.g., west	ern blot).	
Applications Key Cross-Reactivity K		P: Flow Cytometry	y (Fixed/Permeabilized)			

1/1/24, 11:02 AM	Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (Pacific Blue™ Conjugate) (#14196)
	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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