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Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (APC Conjugate)

Reactiv H M R Mk Z Pg	Mi Dm Endogenous Rabbit IgG	UniProt ID:Entrez-Gene Id:#P27361, #P284825595, 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 a antibodies. Protect from light. Do not freeze.	nd 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2 endogenous levels of p44 and p42 MAP Kinase (Erk1 and and Tyr204 of Erk1 (Thr185 and Tyr187 of Erk2), and sing not cross-react with the corresponding phosphorylated re	d Erk2) when dually phosphorylated at Thr202 gly phosphorylated at Tyr204. The antibody does
Source / Purification	Monoclonal antibody is produced by immunizing animals residues surrounding Thr202/Tyr204 of human p44 MAP	
Product Description	This Cell Signaling Technology antibody is conjugated to direct flow cytometry analysis in human cells. The antiboc reactivity as the unconjugated Phospho-p44/42 MAPK (E #4377.	dy is expected to exhibit the same species cross-
Background	Mitogen-activated protein kinases (MAPKs) are a widely of kinases involved in many cellular programs, such as cell p The p44/42 MAPK (Erk1/2) signaling pathway can be acti- extracellular stimuli, including mitogens, growth factors, a consider it an important target in the diagnosis and treatm three-part protein kinase cascade is initiated, consisting of MAP3K), a MAP kinase kinase (MAPKK or MAP2K), and have been identified, including members of the Raf family are the primary MAPKKs in this pathway (5,6). MEK1 and phosphorylation of activation loop residues Thr202/Tyr20- downstream targets of p44/42 have been identified, includ (8,9). p44/42 are negatively regulated by a family of dual- as DUSPs or MKPs (10), along with MEK inhibitors, such	proliferation, differentiation, motility, and death. ivated in response to a diverse range of and cytokines (1-3), and research investigators nent of cancer (4). Upon stimulation, a sequential of a MAP kinase kinase kinase (MAPKKK or a MAP kinase (MAPK). Multiple p44/42 MAP3Ks y, as well as Mos and Tpl2/COT. MEK1 and MEK2 d MEK2 activate p44 and p42 through 4 and Thr185/Tyr187, respectively. Several ding p90RSK (7) and the transcription factor Elk-1 -specificity (Thr/Tyr) MAPK phosphatases, known
Background References	 Roux, P.P. and Blenis, J. (2004) <i>Microbiol Mol Biol Rev</i> Baccarini, M. (2005) <i>FEBS Lett</i> 579, 3271-7. Meloche, S. and Pouysségur, J. (2007) <i>Oncogene</i> 26, 3291- Roberts, P.J. and Der, C.J. (2007) <i>Oncogene</i> 26, 3291- Rubinfeld, H. and Seger, R. (2005) <i>Mol Biotechnol</i> 31, Murphy, L.O. and Blenis, J. (2006) <i>Trends Biochem Sci</i> Dalby, K.N. et al. (1998) <i>J Biol Chem</i> 273, 1496-505. Marais, R. et al. (1993) <i>Cell</i> 73, 381-93. Kortenjann, M. et al. (1994) <i>Mol Cell Biol</i> 14, 4815-24. Owens, D.M. and Keyse, S.M. (2007) <i>Oncogene</i> 26, 324 	3227-39. -310. 151-74. <i>i</i> 31, 268-75.
Species Reactivity	Species reactivity is determined by testing in at least one a	approved application (e.g., western blot).
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S	

GP: Guinea Pig Rab: rabbit All: all species expected

Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (APC Conjugate) (#33370) Datashe...

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