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

Applications: React FC-FP H M R M Z I	k Mi Dm Endogenous Rabbit IgG	UniProt ID: Entrez-Gene Id: #P27361, #P28482 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 antibodies. Protect from light. Do not freeze.	I 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) F endogenous levels of p44 and p42 MAP Kinase (Erk1 and F and Tyr204 of Erk1 (Thr185 and Tyr187 of Erk2), and singly not cross-react with the corresponding phosphorylated resid	Erk2) when dually phosphorylated at Thr202 phosphorylated at Tyr204. The antibody does
Source / Purification	Monoclonal antibody is produced by immunizing animals wi residues surrounding Thr202/Tyr204 of human p44 MAP kir	
Product Description	This Cell Signaling Technology antibody is conjugated to ph flow cytometry analysis in mouse cells. The antibody is exp reactivity as the unconjugated Phospho-p44/42 MAPK (Erk: #4377.	ected to exhibit the same species cross-
Background	Mitogen-activated protein kinases (MAPKs) are a widely con- kinases involved in many cellular programs, such as cell pro- The p44/42 MAPK (Erk1/2) signaling pathway can be activa extracellular stimuli, including mitogens, growth factors, and consider it an important target in the diagnosis and treatment three-part protein kinase cascade is initiated, consisting of a MAP3K), a MAP kinase kinase (MAPKK or MAP2K), and a have been identified, including members of the Raf family, a are the primary MAPKKs in this pathway (5,6). MEK1 and N phosphorylation of activation loop residues Thr202/Tyr204 a downstream targets of p44/42 have been identified, includir (8,9). p44/42 are negatively regulated by a family of dual-sp as DUSPs or MKPs (10), along with MEK inhibitors, such as	oliferation, differentiation, motility, and death. ated in response to a diverse range of d cytokines (1-3), and research investigators nt of cancer (4). Upon stimulation, a sequential a MAP kinase kinase kinase (MAPKKK or MAP kinase (MAPK). Multiple p44/42 MAP3Ks as well as Mos and Tpl2/COT. MEK1 and MEK2 MEK2 activate p44 and p42 through and Thr185/Tyr187, respectively. Several ng p90RSK (7) and the transcription factor Elk-1 pecificity (Thr/Tyr) MAPK phosphatases, known
Background References	 Roux, P.P. and Blenis, J. (2004) <i>Microbiol Mol Biol Rev</i> 68 Baccarini, M. (2005) <i>FEBS Lett</i> 579, 3271-7. Meloche, S. and Pouysségur, J. (2007) <i>Oncogene</i> 26, 32 Roberts, P.J. and Der, C.J. (2007) <i>Oncogene</i> 26, 3291-31 Rubinfeld, H. and Seger, R. (2005) <i>Mol Biotechnol</i> 31, 15 Murphy, L.O. and Blenis, J. (2006) <i>Trends Biochem Sci</i> 3 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, 3203 	27-39. 10. 51-74. 1, 268-75.
Species Reactivity	Species reactivity is determined by testing in at least one ap	proved application (e.g., western blot).
Applications Key Cross-Reactivity Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	

1/1/24, 2:10 PM	 Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (PE Conjugate) (#14095) Datasheet W 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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