5013

## p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb (Biotinylated)



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Applications: W	<b>Reactivity:</b> H M R Hm Mk Mi Dm Z B Dg Pg Ce	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42, 44	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P27361, #P28482	<b>Entrez-Gene Id:</b> 5595, 5594
Product Usage Information	e	<b>Application</b> Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Se	nsitivity	p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb (Biotinylated) detects endogenous levels of total p44/42 M kinase (Erk1/Erk2) protein. The antibody does not cross-react with JNK/SAPK or p38 MAP kinase.				
Species predic based on 1009 homology	cted to react % sequence	Chicken				
Source / Purif	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the C-terminus of rat p44 MAP kinase.				responding to
Description		This Cell Signaling Tecl unconjugated p44/42 monkey, mink, pig, <i>Sa</i> p44/42 MAPK protein. also recognize MAPK i	MAPK (Erk1/2) (137 <i>ccharomyces cerev</i> CST expects that p	F5) Rabbit mAb #4695 <i>isiae, Drosophila melai</i>	reacts with human, mo nogaster, hamster, bovi	ouse, rat, ne and zebrafish
Background		Mitogen-activated pro kinases involved in ma death. The p44/42 MA extracellular stimuli, ir consider it an importa sequential three-part p (MAPKKK or MAP3K), a p44/42 MAP3Ks have b Tpl2/COT. MEK1 and M and p42 through phos respectively. Several d transcription factor Ell MAPK phosphatases, b PD98059.	ny cellular prograr PK (Erk1/2) signalir ncluding mitogens, nt target in the dia protein kinase casc MAP kinase kinase peen identified, inc IEK2 are the primar phorylation of activ ownstream targets (-1 (8,9). p44/42 are	ns, such as cell prolifer og pathway can be activ growth factors, and cy gnosis and treatment of ade is initiated, consist e (MAPKK or MAP2K), a luding members of the ry MAPKKs in this path vation loop residues Th of p44/42 have been in e negatively regulated l	ation, differentiation, r vated in response to a tokines (1-3), and rese of cancer (4). Upon stin ing of a MAP kinase ki nd a MAP kinase (MAP Raf family, as well as l way (5,6). MEK1 and M m202/Tyr204 and Thr1 dentified, including p9 by a family of dual-spe	notility, and diverse range of arch investigators nulation, a nase kinase K). Multiple Mos and EK2 activate p44 85/Tyr187, DRSK (7) and the cificity (Thr/Tyr)
Background R	teferences	1. Roux, P.P. and Blenis 2. Baccarini, M. (2005) 3. Meloche, S. and Pou 4. Roberts, P.J. and Der 5. Rubinfeld, H. and Se 6. Murphy, L.O. and Ble 7. Dalby, K.N. et al. (199 8. Marais, R. et al. (199 9. Kortenjann, M. et al. 10. Owens, D.M. and K	FEBS Lett 579, 327 rysségur, J. (2007) C r, C.J. (2007) Oncoge eger, R. (2005) Mol I enis, J. (2006) Trenc 98) J Biol Chem 273 (3) Cell 73, 381-93. . (1994) Mol Cell Bio	1-7. Drcogene 26, 3227-39. ene 26, 3291-310. Biotechnol 31, 151-74. Is Biochem Sci 31, 268- B, 1496-505. Di 14, 4815-24.		
Species React	ivity	Species reactivity is de	termined by testing	g in at least one approv	ved application (e.g., w	estern blot).
Western Blot	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20			d primary antibody in !	5% w/v BSA, 1X

Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Mi: Mink Dm: D. melanogaster Z: Zebrafish B: Bovine Dg: Dog Pg: Pig Ce: C. elegans
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