Store at -20C

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p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb (Sepharose[®] Bead Conjugate)



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Applications: IP	Reactivity: H M R Hm Mk Mi Dm Z B Dg Pg Ce	Sensitivity: Endogenous	MW (kDa): 42, 44	Source/Isotype: Rabbit IgG	UniProt ID: #P27361, #P28482	Entrez-Gene Id: 5595, 5594
Product Usag Information	e	Application Immunoprecipitation			Dilution 1:20	
Storage		Supplied in 10 mM sod Do not aliquot the anti), 150 mM NaCl, 100 μ	g/ml BSA, 50% glycero	. Store at –20°C.
Specificity/Sensitivity		p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of total p44/42 MAPK (Erk1/2) protein. The antibody does not cross-react with JNK/SAPK or p38 MAP kinase. The addition of 0.1% SDS to the immunoprecipitation reaction may improve pulldown efficiency. Under some conditions this conjugate may immunoprecipitate p44/Erk1 preferentially over p42/Erk2.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the C-terminus of rat p44 MAP kinase.				
Description		This Cell Signaling Tech N-hydroxysuccinimide (Sepharose [®] Bead Con exhibit the same specie #4695.	(NHS)-activated Se jugate) is useful fo	pharose [®] beads. p44/4 r immunoprecipitatior	42 MAPK (Erk1/2) (137F assays. The antibody	5) Rabbit mAb is expected to
Background		Mitogen-activated prot kinases involved in ma death. The p44/42 MAF extracellular stimuli, in consider it an importar sequential three-part p (MAPKKK or MAP3K), a p44/42 MAP3Ks have b Tpl2/COT. MEK1 and M and p42 through phosp respectively. Several do transcription factor Elk MAPK phosphatases, k PD98059.	ny cellular progran PK (Erk1/2) signalin cluding mitogens, nt target in the diag protein kinase casco MAP kinase kinase een identified, incl EK2 are the primar phorylation of active winstream targets -1 (8,9). p44/42 are	ns, such as cell prolifer g pathway can be activ growth factors, and cy gnosis and treatment of ade is initiated, consist (MAPKK or MAP2K), a uding members of the y MAPKKs in this path vation loop residues Th of p44/42 have been is negatively regulated	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 e 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	motility, and diverse range of arch investigators nulation, a nase kinase K). Multiple Mos and EK2 activate p44 85/Tyr187, 0RSK (7) and the cificity (Thr/Tyr)
Background F	References	 Roux, P.P. and Blenis Baccarini, M. (2005) Meloche, S. and Pour Roberts, P.J. and Der, Rubinfeld, H. and Ser Murphy, L.O. and Ble Dalby, K.N. et al. (1992) Kortenjann, M. et al. Owens, D.M. and Ker 	FEBS Lett 579, 327 ysségur, J. (2007) C C.J. (2007) Oncoge ger, R. (2005) Mol E nis, J. (2006) Trena 28) J Biol Chem 273 3) Cell 73, 381-93. (1994) Mol Cell Bio	1-7. Encogene 26, 3227-39. Ene 26, 3291-310. Biotechnol 31, 151-74. Is Biochem Sci 31, 268- 1496-505.		
Species React	ivity	Species reactivity is det	ermined by testing	g in at least one appro	ved application (e.g., w	estern blot).
Applications	Кеу	IP: Immunoprecipitatio	on			
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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