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## p44/42 MAPK (Erk1/2) (L34F12) Mouse mAb



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

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Applications: W, W-F, IHC-P, IF-IC	<b>Reactivity:</b> H M R Mk Mi Z B Pg	Sensitivity: Endogenous	<b>MW (kDa):</b> 42, 44	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P27361, #P28482	Entrez-Gene Id: 5595, 5594
Product Usage Information		Application Western Blotting Fluorescent Western Immunohistochemist Immunofluorescence	try (Paraffin)		<b>Dilutio</b> 1:2000 1:2000	on
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Se	nsitivity	For a carrier free (BSA and azide free) version of this product see product #78241. p44/42 MAP Kinase (L34F12) Mouse mAb detects endogenous levels of total p44/42 MAP kinase (Erk1/Erk2) protein. In some systems this antibody may recognize p42/Erk2 more readily than p44/Erk1. The antibody does not cross-react with JNK/SAPK or p38 MAP kinase.				
Source / Purif		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of p42 MAP Kinase.				
Background		kinases involved in m death. The p44/42 M/ extracellular stimuli, i consider it an import sequential three-part (MAPKKK or MAP3K), p44/42 MAP3Ks have Tpl2/COT. MEK1 and I and p42 through pho respectively. Several of transcription factor E	any cellular program APK (Erk1/2) signalin including mitogens, ant target in the diag protein kinase casco a MAP kinase kinase been identified, incl MEK2 are the primar sphorylation of activ downstream targets lk-1 (8,9). p44/42 are	s) are a widely conserv- ns, such as cell prolifer. g pathway can be activ growth factors, and cyi grosis and treatment o ade is initiated, consisti e (MAPKK or MAP2K), ar uding members of the y MAPKKs in this pathw vation loop residues Th of p44/42 have been ic negatively regulated b MKPs (10), along with	ation, differentiation, r rated in response to a 6 tokines (1-3), and resea of cancer (4). Upon stim ing of a MAP kinase kir nd a MAP kinase (MAP Raf family, as well as N vay (5,6). MEK1 and MB r202/Tyr204 and Thr18 dentified, including p90 by a family of dual-spec	notility, and diverse range of arch investigators hulation, a hase kinase K). Multiple Mos and EK2 activate p44 B5/Tyr187, DRSK (7) and the cificity (Thr/Tyr)
Background R		2. Baccarini, M. (2005 3. Meloche, S. and Po 4. Roberts, P.J. and De 5. Rubinfeld, H. and S 6. Murphy, L.O. and B 7. Dalby, K.N. et al. (19 9. Kortenjann, M. et al	) FEBS Lett 579, 327 <sup>-</sup> uysségur, J. (2007) C er, C.J. (2007) Oncoge leger, R. (2005) Mol E lenis, J. (2006) Trena 998) J Biol Chem 273 93) Cell 73, 381-93. I. (1994) Mol Cell Bio	ncogene 26, 3227-39. ene 26, 3291-310. Biotechnol 31, 151-74. Is Biochem Sci 31, 268-7 , 1496-505.		
Species React	ivity	Species reactivity is d	etermined by testing	g in at least one approv	ed application (e.g., w	estern blot).
Western Blot				membrane with diluted with gentle shaking, ov		5% w/v nonfat
Applications <b>F</b>		<b>W:</b> Western Blotting <b>V</b> Immunofluorescence		stern <b>IHC-P:</b> Immunoh istry)	istochemistry (Paraffin	) <b>IF-IC:</b>

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Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Z: Zebrafish B: Bovine Pg: Pig
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