.696

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



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

.....

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

. . .

Applications: W, W-F, IHC-P, IF-IC	Reactivity: H M R Mk Mi Z B Pg	Sensitivity: Endogenous	MW (kDa): 42, 44	Source/Isotype: Mouse IgG1	UniProt ID: #P27361, #P28482	Entrez-Gene Id: 5595, 5594
Product Usage Information		Application Western Blotting Fluorescent Western Immunohistochemist Immunofluorescence	try (Paraffin)		Dilutio 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 ⁻ 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 F		W: Western Blotting V Immunofluorescence		stern IHC-P: Immunoh istry)	istochemistry (Paraffin) IF-IC:

- --- - --

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Z: Zebrafish B: Bovine Pg: Pig
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.