#4377 Store at -20C

Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit 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: WB, W-S, IF-IC, FC-FP	Reactivity: H M R Mk Mi Dm Z Pg	Sensitivity: Endogenous	MW (kDa): 42, 44	Source/Isotype: Rabbit IgG	UniProt ID: #P27361, #P28482	Entrez-Gene Id : 5595, 5594	
Product Usage	Арр	Application			Dilution		
Information	Wes	Western Blotting			1:1000		
	Sim	ole Western™		1:10 - 1:50			
	Imm	Immunofluorescence (Immunocytochemistry)			1:100 - 1:400		
	Flow	Flow Cytometry (Fixed/Permeabilized)			1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For a	For a carrier free (BSA and azide free) version of this product see product #9524.					
Specificity / Sensitivity		Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb detects endogenous levels of p44 and p42 MAP Kinase (Erk1 and Erk2) when dually phosphorylated at Thr202 and Tyr204 of Erk1 (Thr185 and Tyr187 of Erk2), and singly phosphorylated at Tyr204. The antibody does not cross-react with the corresponding phosphorylated residues of either JNK/SAPK or p38 MAP kinase.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr202/Tyr204 of human p44 MAP kinase.					
Background	kinas The p extra consi three MAP have are th phosi down (8,9).	es involved in man A4/42 MAPK (Erk cellular stimuli, inc der it an importan part protein kinase BK), a MAP kinase been identified, in pe primary MAPK phorylation of activation stream targets of p44/42 are negat	ny cellular prograi 1/2) signaling pat cluding mitogens, t target in the diag ce cascade is initia chinase (MAPKK cluding members s in this pathway vation loop residu p44/42 have beer ively regulated by	ms, such as cell prolife hway can be activated growth factors, and cygnosis and treatment cated, consisting of a Marrow MAP2K), and a Marrow fithe Raf family, as was 15,6). MEK1 and MER Thr202/Tyr204 and in identified, including p	erved family of serine/threeration, differentiation, mod in response to a diverse tokines (1-3), and research cancer (4). Upon stimuli AP kinase kinase kinase kinase (MAPK). Multipl well as Mos and Tpl2/COT (2 activate p44 and p42 tl Thr185/Tyr187, respective p90RSK (7) and the transificity (Thr/Tyr) MAPK pho 0126 and PD98059.	tility, and death. range of ch investigators ation, a sequential (MAPKKK or e p44/42 MAP3Ks MEK1 and MEK2 nrough vely. Several cription factor Elk-1	
Background Refe	2. Ba 3. Me 4. Ro 5. Ru 6. Mu 7. Da 8. Ma 9. Ko	 Roux, P.P. and Blenis, J. (2004) <i>Microbiol Mol Biol Rev</i> 68, 320-44. Baccarini, M. (2005) <i>FEBS Lett</i> 579, 3271-7. Meloche, S. and Pouysségur, J. (2007) <i>Oncogene</i> 26, 3227-39. Roberts, P.J. and Der, C.J. (2007) <i>Oncogene</i> 26, 3291-310. Rubinfeld, H. and Seger, R. (2005) <i>Mol Biotechnol</i> 31, 151-74. Murphy, L.O. and Blenis, J. (2006) <i>Trends Biochem Sci</i> 31, 268-75. 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, 3203-13. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

3/23/24, 1:20 PM Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (#4377) Datasheet Without Images ...

Applications Key

WB: Western Blotting W-S: Simple Western™ IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation.

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 any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.