

## Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb



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

Applications:Reactivity:W, W-F, W-S, IF-IC,H M R Mk Mi Dm ZFC-FPPg	<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
Information	Application Western Blotting Fluorescent Western Simple Western™ Immunofluorescence Flow Cytometry (Fixed.		stry)		00 00 - 1:50 0 - 1:400
	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. For a carrier free (BSA and azide free) version of this product see product #9524.				
	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.				
	Monoclonal antibody i corresponding to resid				ptide
	Mitogen-activated pro- kinases involved in ma death. The p44/42 MAI extracellular stimuli, in consider it an importan sequential three-part p (MAPKKK or MAP3K), a p44/42 MAP3Ks have b Tpl2/COT. MEK1 and M and p42 through phos respectively. Several do transcription factor Elk MAPK phosphatases, k PD98059.	ny cellular program PK (Erk1/2) signalin cluding mitogens, nt target in the diag protein kinase casca MAP kinase kinase been identified, incl EK2 are the priman phorylation of activ bwnstream targets (-1 (8,9). p44/42 are	is, such as cell prolifer g pathway can be activ growth factors, and cy nosis and treatment of ide is initiated, consist (MAPKK or MAP2K), a uding members of the y MAPKKs in this path ation loop residues Th of p44/42 have been id negatively regulated l	ation, differentiation, vated in response to a tokines (1-3), and rese of cancer (4). Upon stir ing of a MAP kinase ki nd a MAP kinase (MAF Raf family, as well as 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 PK). Multiple Mos and EK2 activate p44 85/Tyr187, 0RSK (7) and the cificity (Thr/Tyr)
5	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. (19) 8. Marais, R. et al. (199 9. Kortenjann, M. et al. 10. Owens, D.M. and K	FEBS Lett 579, 3271 ysségur, J. (2007) <i>O</i> ; C.J. (2007) <i>Oncoge</i> ger, R. (2005) <i>Mol B</i> enis, J. (2006) <i>Trend</i> . 98) J Biol Chem 273 3) <i>Cell</i> 73, 381-93. (1994) <i>Mol Cell Bio</i>	-7. ncogene 26, 3227-39. ne 26, 3291-310. iotechnol 31, 151-74. s Biochem Sci 31, 268- , 1496-505. / 14, 4815-24.		
Species Reactivity	Species reactivity is de	termined by testing	in at least one approv	ved application (e.g., w	vestern blot).
	IMPORTANT: For weste TBS, 0.1% Tween® 20 a			d primary antibody in	5% w/v BSA, 1X

Applications Key	W: Western Blotting W-F: Fluorescent Western W-S: Simple Western™ IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Dm: D. melanogaster Z: Zebrafish Pg: Pig
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