#3552 Store at -20C

Erk5 (D23E9) Rabbit mAb	CO T	Cell Signaling	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 115	Source/Isotype: Rabbit IgG	UniProt ID: #Q13164	Entrez-Gene Id 5598	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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/Sensiti	vity	Erk5 (D23E9) Rabbit mAb detects endogenous levels of total Erk5 protein.					
Source / Purificati	on	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues in human Erk5.					
Background		MAPK superfamily im differentiation, and s activation loop TEY m growth-factor-depen Erk5 phosphorylatior other transcriptional factor (G-CSF) in hem neuronal cells, Erk5 is (8,9). Erk5 is thought migration and barrie	nplicated in the regu urvival (1-4). Like ot notif (Thr218/Tyr220 dent, Ras-independen that induces its tra targets (5,6). Erk5 is natopoietic progenite s required for NGF-in to play a role in bloo r function (10-12). A play numerous card	Big mitogen-activated plation numerous cellula ner MAPK family member) that is specifically phosent mechanism (5-7). For nslocation to the nucleus also activated in resport or cells where it promoten nduced neurite outgrow od vessel integrity via m lthough broadly express iac defects, suggesting b	r processes includir ers, Erk5 contains a sphorylated by MAP r example, EGF stim is where it phospho nse to granulocyte c es survival and proli th, neuronal homeo aintenance of endo red, research studie	ng proliferation, canonical 2K5 (MEK5) in a sulation promotes rylates MEF2C and colony-stimulating iferation (7). In postasis, and survival thelial cell s have shown that	
Background Refer	ences	1. Zhou, G. et al. (199 2. Hayashi, M. and Le 3. Wang, X. and Tourn 4. Nishimoto, S. and I 5. Kato, Y. et al. (1998 6. Kato, Y. et al. (1997 7. Dong, F. et al. (200 8. Obara, Y. et al. (200 9. Finegan, K.G. et al. 10. Spiering, D. et al. 11. Sawhney, R.S. et a 12. Zhao, Z. et al. (200	ee, J.D. (2004) <i>J Mol N</i> nier, C. (2006) <i>Cell Si</i> Nishida, E. (2006) <i>EN</i> Nature 395, 713-6. <i>Context</i> (2006) <i>J ENBO J</i> 16, 7054-6 (2007) <i>J Biol Chem</i> 276, 1 <i>J Biol Chem</i> 276, 1 <i>J Biol Chem</i> 284, (2009) <i>Cell Death D</i> (2009) <i>J Biol Chem</i> 2 al. (2009) <i>J Cell Physi</i>	<i>1ed</i> 82, 800-8. <i>gnal</i> 18, 753-60. <i>1BO Rep</i> 7, 782-6. 6. 0811-6. 23564-73. <i>iffer</i> 16, 674-83. 84, 24972-80. <i>ol</i> 219, 152-61.			
Species Reactivity	,	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buff	er			bate membrane with diluted primary antibody in 5% w/v BSA, 1X ntle shaking, overnight.			
Applications Key		W: Western Blotting					
Cross-Reactivity K	ey	H: Human M: Mouse	H: Human M: Mouse R: Rat Mk: Monkey				
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