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## Phospho-EphA3 (Tyr779) (D10H1) Rabbit mAb



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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 135	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P29320	Entrez-Gene Id: 2042
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
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/Sen	sitivity	Phospho-EphA3 (Tyr779) (D10H1) Rabbit mAb recognizes endogenous levels of EphA3 protein only when phosphorylated at Tyr779. This antibody cross-reacts with EphA2, EphA4, and EphA5 at the corresponding phosphosites.				
Species predict based on 100% homology		Mouse, Rat				
Source / Purific	cation			nunizing animals with a s yr779 of human EphA3 p		eptide
Background		into two groups based EphA receptors bind to to ephrin B proteins th shown that Eph recept ephrin A and B ligands receptors and activate is sufficient for this fur described as "reverse s allowing interactions w cells (5). The EphA3 receptor pr signaling, regulates ce EphA3 plays a critical r cardiac cell migration functional domains of levels have been corre carcinoma (13,14). Both Tyr602 and Tyr77 (15). Phosphorylated T Crk adaptor, which in t	d on sequence similies of a glycosylphosph hat have a transme tors and ligands may shave dual function a signaling pathway nction as long as it signaling", whereby with other proteins referentially binds of ell adhesion and mi role in callosal axor and differentiation EphA3 are linked t elated with tumor a 79 phosphorylation fyr779 of the EphA3 curn activates the s	family of receptor tyrosi larity and on their prefer atidylinositol-anchored e mbrane and cytoplasmic ay be involved in many d ns. As RTK ligands, ephri rs in receptor-expressing is clustered (4). The secc y the cytoplasmic domai that may activate signal ephrin-A5. This ligand-re gration, and induces cell n guidance (9), retinotect (11). Investigators have o lung cancer progression ngiogenesis and progres are involved in ephrin-A B receptor is the binding mall GTPase RhoA (16).	ence for a subset o ephrin A ligand, Eph domain (1,2). Rese liseases including cans stimulate the kir cells. The ephrin er ond function of ephr n becomes tyrosine ing pathways in the ceptor interaction s lular morphologic r al mapping of neur shown that somation (12). In addition, ssion in gastric and 5 induced EphA3 re	f ligands. While B receptors bind arch studies have ancer (3). Both hase activity of Eph stracellular domain rins has been phosphorylated, ligand-expressing timulates EphA3 esponses (6-8). ons (10), as well as mutations in EphA3 expression colorectal
Background Re	eferences	1. Wilkinson, D.G. (200 2. Klein, R. (2001) <i>Curr</i> 3. Dodelet, V.C. and Pa 4. Holder, N. and Klein 5. Brückner, K. et al. (11 6. Smith, L.M. et al. (20 7. Clifford, N. et al. (20 8. Vearing, C. et al. (20 9. Nishikimi, M. et al. (20 9. Nishikimi, M. et al. (20 10. Connor, R.J. et al. (1998) 12. Lisabeth, E.M. et al 13. Xi, H.Q. et al. (2012) 14. Xi, H.Q. and Zhao, I 15. Shi, G. et al. (2010)	<ul> <li>Ópin Cell Biol 13, 1</li> <li>isquale, E.B. (2000)</li> <li>, R. (1999) Develop</li> <li>997) Science 275, 1</li> <li>004) Exp Cell Res 29</li> <li>08) J Cell Biochem</li> <li>05) Cancer Res 65,</li> <li>2011) J Neurosci 31</li> <li>1998) Dev Biol 193,</li> <li>Am J Physiol 274, F</li> <li>I. (2012) Biochemis</li> <li>) J Gastroenterol 47</li> <li>P. (2011) J Clin Path</li> </ul>	96-203. <i>Oncogene</i> 19, 5614-9. <i>ment</i> 126, 2033-44. 640-3. 92, 295-303. 105, 1250-9. 6745-54. , 16251-60. 21-35. 1331-41. <i>try</i> 51, 1464-75. 7, 785-94. <i>ol</i> 64, 498-503.		

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.
Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human
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