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Phospho-EphA2 (Ser897) (D9A1) Rabbit mAb



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

Applications: W, IP, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #P29317	Entrez-Gene Id: 1969
Product Usage Information Storage		0.02% sodium azide. S	dium HEPES (pH 7.5 itore at –20°C. Do n	5), 150 mM NaCl, 100 μg, ot aliquot the antibody.	1: 1: 1: /ml BSA, 50% glycei	ilution 1000 100 8000 rol and less than
Specificity/Sen	sitivity	For a carrier free (BSA and azide free) version of this product see product #16662. Phospho-EphA2 (Ser897) (D9A1) Rabbit mAb recognizes endogenous levels of EphA2 protein only when phosphorylated at Ser897.				
Species predict based on 100% homology		Rat				
Source / Purific	cation			nunizing animals with a s Ser897 of human EphA2		peptide
Background		The Eph receptors are the largest known family of receptor tyrosine kinases (RTKs). They can be divided into two groups based on sequence similarity and on their preference for a subset of ligands: EphA receptors bind to a glycosylphosphatidylinositol-anchored ephrin A ligand; EphB receptors bind to ephrin B proteins that have a transmembrane and cytoplasmic domain (1,2). Research studies have shown that Eph receptors and ligands may be involved in many diseases including cancer (3). Both ephrin A and B ligands have dual functions. As RTK ligands, ephrins stimulate the kinase activity of Eph receptors and activate signaling pathways in receptor-expressing cells. The ephrin extracellular domain is sufficient for this function as long as it is clustered (4). The second function of ephrins has been described as "reverse signaling", whereby the cytoplasmic domain becomes tyrosine phosphorylated, allowing interactions with other proteins that may activate signaling pathways in the ligand-expressing cells (5). Various stimuli can induce tyrosine phosphorylation of ephrin B, including binding to EphB receptors, activation of Src kinase, and stimulation by PDGF and FGF (6). Tyr324 and Tyr327 have been identified as major phosphorylation sites of ephrin B1 <i>in vivo</i> (7). It has been demonstrated that ligand-independent promotion of cell migration by EphA2 overexpression requires phosphorylation of EphA2 at Ser897 by Akt. On the other hand, stimulation of EphA2 by its ligand Ephrin-A1 negates Akt activation by growth factors and causes EphA2				
Background Re	eferences	dephosphorylation at 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. (1 6. Palmer, A. et al. (200 7. Kalo, M.S. et al. (200 8. Miao, H. et al. (2009	0) Int Rev Cytol 196 Opin Cell Biol 13, 1 Isquale, E.B. (2000) , R. (1999) Develop 997) Science 275, 1 92) Mol Cell 9, 725-3 11) J Biol Chem 276,	96-203. <i>Oncogene</i> 19, 5614-9. <i>ment</i> 126, 2033-44. 640-3. 37. 38940-8.		
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody i	n 5% w/v BSA, 1X

Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)	
Cross-Reactivity Key	H: Human M: Mouse	
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