Phospho-EphA2 (Tyr588) Antibody



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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit	UniProt ID: #P29317	Entrez-Gene Id: 1969
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensit	tivity	Phospho-EphA2 (Tyr588) Antibody recognizes endogenous levels of EphA2 protein only when phosphorylated at Tyr588. This antibody may cross-react with other overexpressed phosphotyrosine proteins.				
Species predicted based on 100% so homology		Mouse, Rat, Monkey				
Source / Purifica	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr588 of human EphA2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		into two groups based receptors bind to a glyc ephrin B proteins that I shown that Eph receptor ephrin A and B ligands receptors and activate is sufficient for this fun described as "reverse s allowing interactions w cells (5). Various stimul receptors, activation of identified as major pho Phosphorylation of Tyr phosphorylated Tyr588	on sequence simil cosylphosphatidyli have a transmemb ors and ligands ma have dual functior signaling pathway ction as long as it i ignaling", whereby ith other proteins i can induce tyrosia 5rc kinase, and sti sphorylation sites 594 was identified and Tyr594 of Eph	family of receptor tyrosi arity and on their prefer nositol-anchored ephrin rane and cytoplasmic do by be involved in many d is. As RTK ligands, ephri is in receptor-expressing s clustered (4). The secce the cytoplasmic domai that may activate signal he phosphorylation of e mulation by PDGF and F of ephrin B1 <i>in vivo</i> (7). in several tumor cell lin- hA2 provide binding site alved in regulation of cel	rence for a subset o a A ligand; EphB rec- omain (1,2). Researd liseases including c. Ins stimulate the kir g cells. The ephrin er ond function of ephi n becomes tyrosine ing pathways in the phrin B, including b FGF (6). Tyr324 and es (8,9). It was demo s for guanine nucle	f ligands: EphA eptors bind to ch studies have ancer (3). Both hase activity of Eph xtracellular domain rins has been e phosphorylated, e ligand-expressing binding to EphB Tyr327 have been onstrated that
Background Refe	erences	1. Wilkinson, D.G. (2000 2. Klein, R. (2001) <i>Curr</i> 3. Dodelet, V.C. and Pas 4. Holder, N. and Klein, 5. Brückner, K. et al. (19 6. Palmer, A. et al. (2002 7. Kalo, M.S. et al. (2007 8. Guo, A. et al. (2008) 9. Rikova, K. et al. (2007 10. Fang, W.B. et al. (20	Opin Cell Biol 13, 1 squale, E.B. (2000) R. (1999) Developi 97) Science 275, 10 2) Mol Cell 9, 725-3 1) J Biol Chem 276, Proc Natl Acad Sci 7) Cell 131, 1190-12	96-203. <i>Oncogene</i> 19, 5614-9. <i>nent</i> 126, 2033-44. 540-3. 7. 38940-8. <i>U S A</i> 105, 692-697. 203.		
Species Reactivit	ÿ	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	ffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted haking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X
Applications Key	,	W: Western Blotting IP	: Immunoprecipita	tion		

Cross-Reactivity Key	H: Human
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