#3481 Store at -500 Antibody	rin B (Tyr324/3	29)		Orders: Support: Web:	Signaling H N O L O G Y* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com	
For Research Use Only. Not f	or Use in Diagnostic Pro	cedures.	3 Tras	sk Lane   Danvers   Massa	chusetts   01923   USA	
Applications: Rea WB	ctivity: Sensitivity: H Transfected Only	<b>MW (kDa):</b> 59	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P98172, #Q15768, #P52799	Entrez-Gene Id: 1947, 1949, 1948	
Product Usage Information	Application Western Blotting			<b>Dilution</b> 1:1000		
Storage	Supplied in 10 mM so 20°C. Do not aliquot tl		5), 150 mM NaCl,	100 $\mu$ g/ml BSA and 50% gly	ycerol. Store at –	
Specificity / Sensitivity	Phospho-Ephrin B (Ty phosphorylated at tyrc	Phospho-Ephrin B (Tyr324/329) Antibody detects transfected levels of ephrin B protein only when phosphorylated at tyrosines 324/329. The antibody cross-reacts with ephrins B1, B2 and B3 but does not cross-react with other tyrosine-phosphorylated proteins.				
Species predicted to react based on 100% sequence homology:	Mouse, Rat					
Source / Purification		ng Tyr324/329 of hun		vith a synthetic phosphoper ibodies are purified by prote		
Background	into two groups based receptors bind to a gly proteins that have a tr receptors and ligands have dual functions. A signaling pathways in function as long as it i signaling", whereby th other proteins that ma induce tyrosine phosp and stimulation by PD	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).				
Background Reference		00) Int Rev Cytol 199 rr Opin Cell Biol 13, 1 vasquale, E.B. (2000) n, R. (1999) Develop 1997) Science 275, 2 02) Mol Cell 9, 725-3	196-203. ) <i>Oncogene</i> 19, 56 <i>ment</i> 126, 2033-44 1640-3. 37.			
Species Reactivity	Species reactivity is de	termined by testing i	n at least one app	roved application (e.g., wes	stern 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 Cross-Reactivity Key	WB: Western Blotting					

1/1/24, 10:16 AM	<ul> <li>Phospho-Ephrin B (Tyr324/329) Antibody (#3481) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
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