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Phospho-Tie2 (Ser1119) Antibody

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For Research Use	Only, Not fo	r Use in Diagno	ostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 160	Source: Rabbit	UniProt ID: #Q02763	Entrez-Gene Id: 7010	
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 and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.					
Specificity / Sensit		Phospho-Tie2 (Ser1119) Antibody detects transfected levels of Tie2 protein only when phosphorylated at serine 1119.					
Source / Purification	to r	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1119 of human Tie2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background Background Refer	for blo Tie 4 (, inh the dep loo Ph (pe rences 1. V 2. 3 3. F 4. E 5. F 6. 7	 Tie2/Tek is a receptor tyrosine kinase (RTK) expressed almost exclusively on endothelial cells. It is critical for vasculogenesis and could be important for maintaining endothelial cell survival and integrity in adult blood vessels as well as tumor angiogenesis (1-3). A family of ligands known as the angiopoietins binds to Tie2. Interestingly, these ligands appear to have opposing actions; Angiopoietin-1 (Ang1) and Angiopoietin-4 (Ang4) stimulate tyrosine phosphorylation of Tie2; Angiopoietin-2 (Ang2) and Angiopoietin-3 (Ang3) can inhibit this phosphorylation (4,5). Downstream signaling components, including Grb2, Grb7, Grb14, SHP-2, the p85 subunit of phosphatidylinositol 3-kinase, and p56/Dok-2 interact with Tie2 in a phosphotyrosine-dependent manner through their SH2 or PTB domains (6,7). Tyr992 is located on the putative activation loop of Tie2 and is a major autophosphorylation site (8). Phosphorylation of Ser1119 at the carboxy-terminus of Tie2 results in an increase of Tie2 kinase activity (personal communication with Dr. Chris Kontos, Duke University). 1. Ward, N.L. and Dumont, D.J. (2002) Semin. Cell Dev. Biol. 13, 19-27. 2. Jones, N. and Dumont, D.J. (2000) Cancer Metastasis Rev. 19, 13-17. 3. Partanen, J. and Dumont, D.J. (1999) Curr. Top. Microbiol. Immunol. 237, 159-172. 4. Ellis, L. M. et al. (2002) Exp. Mol. Med. 34, 1-11. 6. Jones, N. et al. (2002) Exp. Mol. Med. 34, 1-11. 6. Jones, N. et al. (2003) Mol. Cell. Biol. 23, 2658-2668. 8. Murray, B. W. et al. (2001) Biochem. 40, 10243-10253. 					
Species Reactivity	spe	cies reactivity is deter	mined by testing ir	n at least one approv	ved application (e.g., we	estern blot).	
Western Blot Buffe			western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, at 4°C with gentle shaking, overnight.				
Applications Key	WE	WB: Western Blotting					
Cross-Reactivity k	X : X	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 					
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