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Phospho-Tie2 (Ser1119) Antibody



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

Applications:	Reactivity: ⊢	Sensitivity: Transfected Only	MW (kDa): 160	Source/Isotype: 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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Tie2 (Ser1119) Antibody detects transfected levels of Tie2 protein only when phosphorylated at serine 1119.				
Source / Purification		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		critical for vasculogen in adult blood vessels angiopoietins binds to 1 (Ang1) and Angiopoi and Angiopoietin-3 (Aincluding Grb2, Grb7, interact with Tie2 in a Tyr992 is located on the Phosphorylation of Se	esis and could be in as well as tumor an Tie2. Interestingly letin-4 (Ang4) stimung3) can inhibit thing Grb14, SHP-2, the phosphotyrosine-deputative activation	K) expressed almost exc mportant for maintainin ngiogenesis (1-3). A fam these ligands appear to alate tyrosine phosphory is phosphorylation (4,5). 1885 subunit of phosphate dependent manner through ton loop of Tie2 and is a look exy-terminus of Tie2 resu contos, Duke University)	g endothelial cell si ily of ligands knowr o have opposing ac /lation of Tie2; Angi Downstream signal tidylinositol 3-kinasi ugh their SH2 or PTI major autophospho lts in an increase of	urvival and integrity as the tions; Angiopoietin-opoietin-2 (Ang2) ing components, e, and p56/Dok-2 B domains (6,7).
Background References		 Ward, N.L. and Dumont, D.J. (2002) Semin. Cell Dev. Biol. 13, 19-27. Jones, N. and Dumont, D.J. (2000) Cancer Metastasis Rev. 19, 13-17. Partanen, J. and Dumont, D.J. (1999) Curr. Top. Microbiol. Immunol. 237, 159-172. Ellis, L. M. et al. (2002) Oncology 16, 31-35. Koh, G. Y. et al. (2002) Exp. Mol. Med. 34, 1-11. Jones, N. et al. (1999) J. Biol. Chem. 274, 30896-30905. Jones, N. et al. (2003) Mol. Cell. Biol. 23, 2658-2668. Murray, B. W. et al. (2001) Biochem. 40, 10243-10253. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approv	ed 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				
Cross-Reactivity Key		H: Human				
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