Limited Uses

Phospho-Tie2 (Tyr992) Antibody



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

Applications: W	Reactivity: H	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	
itorage		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 (Tyr992) Antibody detects transfected levels of Tie2 protein only when phosphorylated at tyrosine 992.				
Species predicted based on 100% so homology	d to react equence	Mouse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr992 of human Tie2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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).				
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 Reactivit	у	Species reactivity is de	termined by testin	g in at least one approve	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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