7403

Tie2 (D9D10) Rabbit mAb



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Applications: W, W-S	Reactivity:	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit IgG	UniProt ID: #Q02763	Entrez-Gene Id: 7010
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10 - 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Tie2 (D9D10) Rabbit mAb recognizes endogeneous levels of total Tie2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg580 of human Tie2 protein.				
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 Reactivity Species reactivity is determined by testing in at least one approved 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 W-S: Simple Western™

Cross-Reactivity Key H: Human

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