VEGF Receptor 2 (D5B1) Rabbit mAb (Pacific Blue[™] Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), antibody. Protect from li		zide and 2 mg/ml BS	A. Store at 4°C. Do not aliquot the
Specificity/Sensitivity		VEGF Receptor 2 (D5B1) Rabbit mAb (Pacific Blue™ Conjugate) recognizes endogenous levels of total VEGF receptor 2 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein containing the carboxy-terminal 150 amino acid residues of human VEGF receptor 2 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested inhouse for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody VEGF Receptor 2 (D5B1) Rabbit mAb #9698.			
Background		Vascular endothelial growth factor receptor 2 (VEGFR2, KDR, Flk-1) is a major receptor for VEGF-induced signaling in endothelial cells. Upon ligand binding, VEGFR2 undergoes autophosphorylation and becomes activated (1). Major autophosphorylation sites of VEGFR2 are located in the kinase insert domain (Tyr951/996) and in the tyrosine kinase catalytic domain (Tyr1054/1059) (2). Activation of the receptor leads to rapid recruitment of adaptor proteins, including Shc, GRB2, PI3 kinase, NCK, and the protein tyrosine phosphatases SHP-1 and SHP-2 (3). Phosphorylation at Tyr1212 provides a docking site for GRB2 binding and phospho-Tyr1175 binds the p85 subunit of PI3 kinase and PLCγ, as well as Shb (1,4,5). Signaling from VEGFR2 is necessary for the execution of VEGF-stimulated proliferation, chemotaxis and sprouting, as well as survival of cultured endothelial cells <i>in vitro</i> and angiogenesis <i>in vivo</i> (6-8).			
Background References		1. Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74. 2. Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38. 3. Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7. 4. Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78. 5. Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75. 6. Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605. 7. Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92. 8. Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Pacific Blue is a trademark of Life Technologies Corporation.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.