3628

VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor[®] 647 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.

Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot th antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity		VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) detects endogenous levels of total VEGF receptor 2 protein. This antibody does not cross-react with other family members.				
Species predicted to react based on 100% sequence homology		Bovine				
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. This antibody was conjugated to Alexa Fluor [®] 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor [®] 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor [®] 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.				
Description		This Cell Signaling Technology (CST) antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. The unconjugated VEGF Receptor 2 (55B11) Rabbit mAb #2479 reacts with human and mouse VEGF receptor 2 protein. CST expects that VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) will also recognize VEGF receptor 2 in these species.				
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 Refe	rences	 Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74. Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38. Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7. Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78. Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75. Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605. Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92. Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4. 				
Species Reactivity	v	Species reactivity is determi	ined by testing in at l	east one approved application (e.g., western blot).		
Cross-Reactivity I		H: Human M: Mouse				
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		transfer of this product is co conducted by the buyer, exc must not (1) use this produc purposes; (b) testing, analys	onditioned on the bui luding contract resea ct or its components sis or screening servi	operty license from Life Technologies Corporation. The yer using the purchased product solely in research arch or any fee for service research, and the buyer for (a) diagnostic, therapeutic or prophylactic ces, or information in return for compensation on a surance or quality control, and/or (2) sell or transfer		

this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

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.