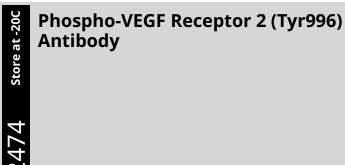
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| Applications:<br>W  | Reactivity:<br>H M | Sensitivity:<br>Transfected Only  | <b>MW (kDa):</b><br>230   | <b>Source/Isotype:</b><br>Rabbit | <b>UniProt ID:</b><br>#P35968 | Entrez-Gene Id:<br>3791 |  |  |
|---|--------------------|---|---------------------------|----------------------------------|-------------------------------|-------------------------|--|--|
| Product Usage<br>Information  |                    | <b>Application</b><br>Western Blotting  | <b>Dilution</b><br>1:1000 |                                  |                               |                         |  |  |
| Storage   |                    | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –<br>20°C. Do not aliquot the antibody.  |                           |                                  |                               |                         |  |  |
| Specificity/Sensitivity   |                    | Phospho-VEGF Receptor 2 (Tyr996) Antibody detects transfected VEGFR 2 only when phosphorylated at<br>tyrosine 996. The antibody cross-reacts with tyrosine-phosphorylated PDGF receptor.  |                           |                                  |                               |                         |  |  |
| Source / Purification   |                    | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide<br>corresponding to residues surrounding Tyr996 of human VEGF receptor 2. Antibodies are purified by<br>protein A and peptide affinity chromatography.   |                           |                                  |                               |                         |  |  |
| 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 PLCy, 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) EMBO J 18, 363-74.   2. Dougher-Vermazen, M. et al. (1994) Biochem Biophys Res Commun 205, 728-33.   3. Kroll, J. and Waltenberger, J. (1997) J Biol Chem 272, 32521-7.   4. Takahashi, T. et al. (2001) EMBO J 20, 2768-78.   5. Holmqvist, K. et al. (2004) J Biol Chem 279, 22267-75.   6. Karkkainen, M.J. and Petrova, T.V. (2000) Oncogene 19, 5598-605.   7. Rahimi, N. et al. (2000) J Biol Chem 275, 16986-92.   8. Claesson-Welsh, L. (2003) Biochem Soc Trans 31, 20-4. |                    |   |                           |                                  |                               |                         |  |  |
| Species Reactiv   | /ity               | Species reactivity is det   | ermined by testing        | g in at least one approve        | ed application (e.g.,         | western blot).          |  |  |
| Western Blot B  | uffer              | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X<br>TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.   |                           |                                  |                               | ז 5% w/v BSA, 1X        |  |  |
| Applications Ke   | ey                 | W: Western Blotting   |                           |                                  |                               |                         |  |  |
| Cross-Reactivit   | у Кеу              | H: Human M: Mouse   |                           |                                  |                               |                         |  |  |
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