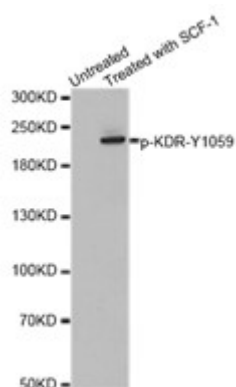


Product name:	Phospho-VEGFR2-Y1059
Cat number:	ABP-0283
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Reactivity:	Hu
Applications:	Western Blotting 1:1000
Molecular Weight:	230 kDa
Purification:	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding tyrosine 1059 of human VEGFR 2 protein.
Form:	liquid
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3
Storage:	Store at -20°C. Avoid freeze / thaw cycles
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 in vitro and angiogenesis in vivo (6-8). Phospho-VEGF Receptor-2 (Tyr1059) Antibody detects endogenous levels of VEGFR-2 proteins only when phosphorylated at tyrosine 1059.



Western blot analysis of extracts from HT29 cells untreated or treated with SCF-1 using Phospho-VEGFR 2 (Tyr1059) antibody.