

## Lysate Preparation

Vascular endothelial growth factor receptor-2 (VEGFR-2/Flk-1/KDR) is the primary receptor for VEGF in endothelial cells. Other VEGFR family members, VEGFR-1 (Flt-1) and VEGFR-3 (Flt-4), can also transduce the intracellular signals of VEGF. However, the role of VEGFR-1 is observed mainly during embryonic angiogenesis and VEGFR-3 signaling may be restricted to specific types of endothelial cells. Major autophosphorylation sites of VEGFR-2 are located in the kinase insert domain (Tyr-951/996) and in the tyrosine kinase catalytic domain (Tyr-1054/1059). Other sites, Tyr-1175 and Tyr-1212 provide docking sites for downstream signaling molecules. Activation of VEGFR-2 also phosphorylates Tyr-801, leading to PI3-kinase-Akt activation and increases in endothelial nitric oxide synthase activity.

Human recombinant VEGFR-2 protein includes the cytoplasmic region from VEGFR-2 and an N-terminal GST fusion protein (110 kDa). The protein is detected by rabbit polyclonal anti-VEGFR-2 (a.a. 1304-1317) antibody (Cat.#VP2871).

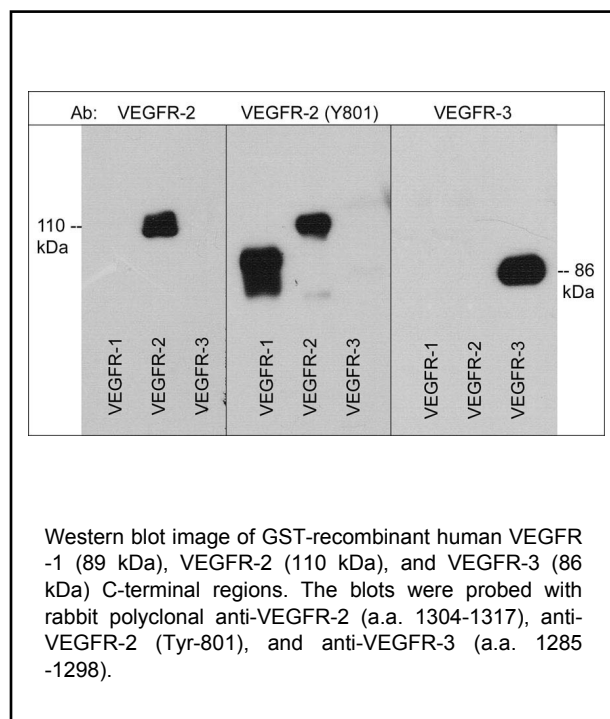
## Buffer and Storage

VEGFR-2 recombinant protein lysate is supplied at a concentration of 2 ng/µl in electrophoresis sample buffer (62.5 mM Tris pH 6.8, 2% SDS, 5% glycerol, 0.003% bromophenol blue, 0.9% β-mercaptoethanol). Store at -20°C. Do not boil or dilute. Stable for 1 year.

## Applications

WB 10 µl/lane

End user should determine optimal quantity for their particular applications and experiments.



## Related Products

- VK6090 VEGFR Phospho-Regulation Antibody Sampler Kit
- VL7471 VEGFR-1 Recombinant Protein Lysate
- VL7491 VEGFR-3 Recombinant Protein Lysate
- VP2871 VEGFR-2 (a.a.1304-1317) Rabbit Polyclonal
- VP2921 VEGFR-2 (Tyr-801)[conserved site], phospho-specific Rabbit

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