

Product datasheet

Recombinant human VEGF Receptor 2 protein (Active) ab106310

3 图像

描述

| | |
|-----------|--|
| 产品名称 | 重组人VEGF Receptor 2蛋白(Active) |
| 生物活性 | Measured by its ability to inhibit the VEGF165-induced proliferation in human umbilical vein endothelial (HUVE) cells. |
| 纯度 | > 95 % SDS-PAGE. Affinity purified. |
| 表达系统 | Insect cells |
| Accession | <u>P35968</u> |
| 蛋白长度 | Full length protein |
| 无动物成分 | No |
| 性质 | Recombinant |
| 种属 | Human |
| 序列 | The soluble receptor protein consists of the first 6 extracellular domains and contains the unique C-terminal end of native Human soluble VEGF Receptor 2 (CGRETILDHSAEAVGMP) [Albuquerque et al., Nature Medicine, 2009] generated by alternative splicing. |
| 预测分子量 | 105 kDa |

技术指标

Our **Abpromise guarantee** covers the use of **ab106310** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|------|---|
| 应用 | Functional Studies SDS-PAGE |
| 形式 | Lyophilized |
| 补充说明 | Endotoxin level: < 0.1 ng per ug. Measured by its ability to bind to immobilized recombinant Human VEGF165 in a functional ELISA. |

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Constituents: 0.4875% MES, 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

复溶

The lyophilized powder should be reconstituted in water or PBS to a concentration not lower than 100 µg/ml.

常规信息

功能

Receptor for VEGF or VEGFC. Has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

疾病相关

Defects in KDR are associated with susceptibility to hemangioma capillary infantile (HCI) [MIM:602089]. HCI are benign, highly proliferative lesions involving aberrant localized growth of capillary endothelium. They are the most common tumor of infancy, occurring in up to 10% of all births. Hemangiomas tend to appear shortly after birth and show rapid neonatal growth for up to 12 months characterized by endothelial hypercellularity and increased numbers of mast cells. This phase is followed by slow involution at a rate of about 10% per year and replacement by fibrofatty stroma.

序列相似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

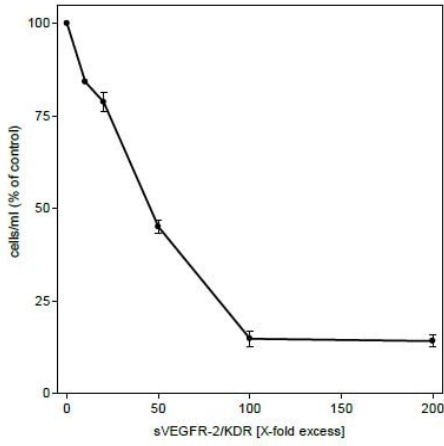
翻译后修饰

Phosphorylated. Dephosphorylated by PTPRB. Dephosphorylated by PTPRJ at Tyr-951, Tyr-996, Tyr-1054, Tyr-1059, Tyr-1175 and Tyr-1214.

细胞定位

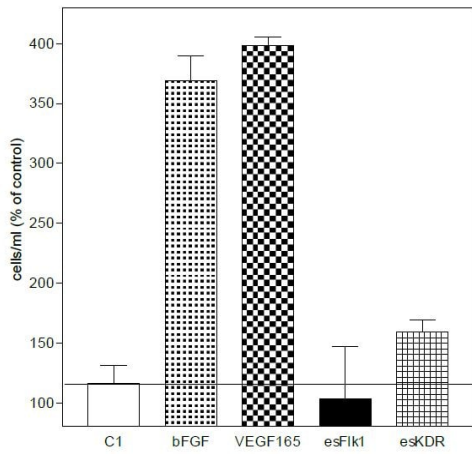
Membrane.

图片



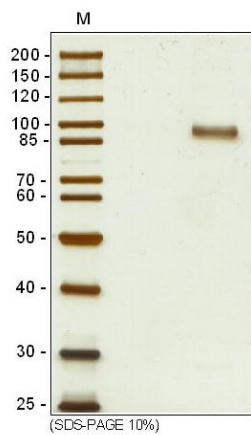
Functional Studies - Recombinant Human VEGF Receptor 2 protein (ab106310)

Inhibition of the VEGF 165-induced proliferation in HUVECs by soluble VEGFR-2/KDR. VEGF 165 (10ng/ml) was preincubated with increasing amounts of sVEGFR-2/KDR for 1h and then added to the cells.



Functional Studies - Recombinant Human VEGF Receptor 2 protein (ab106310)

Inhibition of the VEGF 165-induced proliferation of HUVE cells by recombinant human and mouse endogenous sKDR and sFlk-1 HUVECs were stimulated with 10 ng/ml VEGF165, both soluble receptors were added with a 100X excess.



SDS-PAGE - Recombinant Human VEGF Receptor 2 protein (ab106310)

SDS-PAGE showing ab106310

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