

Human CellExp VEGF164, mouse recombinant protein
VEGF164, VEGFA, VPF
Catalog # PBV11046r**Specification**

Human CellExp VEGF164, mouse recombinant protein - Product infoPrimary Accession
Calculated MW[Q00731](#)

Mouse VEGF164 contains no "tag", and has a calculated MW of 19.3 kDa. The predicted N-terminus is Ala 27. DTT-reduced Protein migrates as 23-25 kDa in SDS-PAGE due to different glycosylation. KDa

Human CellExp VEGF164, mouse recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
VEGF164, VEGFA, VPF22339
VEGFAGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Mouse
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 3.5 ng/ml.

Target/Specificity
VEGF164**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp VEGF164, mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp VEGF164, mouse recombinant protein - Images

Human CellExp VEGF164, mouse recombinant protein - Background

Vascular endothelial growth factor A (VEGFA) is also known as Vascular permeability factor (VPF). VEGFA belongs to the PDGF/VEGF growth factor family. VEGFA is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. VEGFA is produced by a group of three major isoforms as a result of alternative splicing and if any three isoforms are produced (VEGFA120, VEGFA164, and VEGFA188) then this will not result in vessel defects and death of the full VEGFA knockout in mice.

Human CellExp VEGF164, mouse recombinant protein - References

Breier G., et al. Development 114:521-532(1992).
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Sugihara T., et al. J. Biol. Chem. 273:3033-3038(1998).
Jankowsky J.A., et al. Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
Church D.M., et al. PLoS Biol. 7:E1000112-E1000112(2009).