

Product datasheet

Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active) ab267357

4 Images

Description

<b>Product name</b>	Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active)
<b>Biological activity</b>	<p><b>Assay 1:</b> Immobilized Human VEGF165, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 1-31 ng/mL.</p> <p><b>Assay 2:</b> Immobilized Mouse VEGF120, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 1-31 ng/mL.</p> <p><b>Assay 3:</b> Immobilized Mouse VEGF164, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 2-31 ng/mL.</p>
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Endotoxin level</b>	< 0.100 Eu/µg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<a href="#">P35918</a>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Mouse
<b>Predicted molecular weight</b>	110 kDa including tags
<b>Molecular weight information</b>	The protein has a calculated MW of 110.1 kDa. The protein migrates as 120-135 kDa under reducing conditions (SDS-PAGE) due to glycosylation.
<b>Amino acids</b>	20 to 762
<b>Tags</b>	Fc tag C-Terminus
<b>Additional sequence information</b>	Extracellular domain fused to mouse IgG2a Fc tag (P01863, aa 98-330) at the C-terminus.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab267357** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
	Functional Studies

**Form** Lyophilized

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
pH: 7.40  
Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose  
  
Lyophilized from 0.22 micron filtered solution  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution** Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

## General Info

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**Function** 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.

**Involvement in disease** 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.

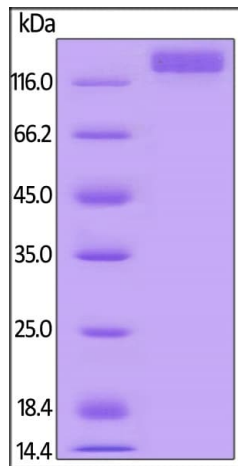
**Sequence similarities** Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.  
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 1 protein kinase domain.

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

**Cellular localization** Membrane.

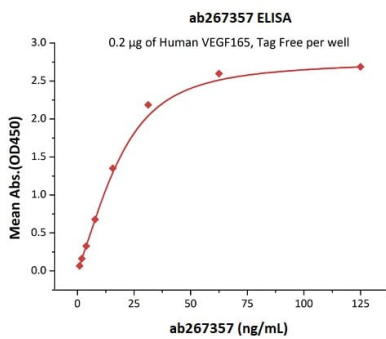
## Images

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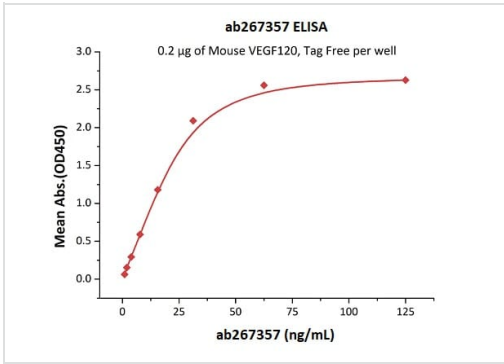
SDS-PAGE analysis of ab267357 under reducing conditions.  
 The protein has a calculated MW of 110.1 kDa, but migrates as 120-135 kDa under reducing conditions due to glycosylation.  
 The gel was stained overnight with Coomassie Blue.

Peptide Array - Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active) (ab267357)



Functional analysis of ab267357.  
 Immobilized Human VEGF165, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 1-31 ng/mL.

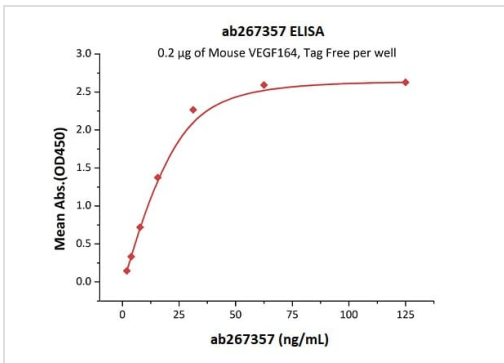
Functional Studies - Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active) (ab267357)



Functional Studies - Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active) (ab267357)

Functional analysis of ab267357.

Immobilized Mouse VEGF120, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 1-31 ng/mL.



Functional Studies - Recombinant mouse VEGF Receptor 2 protein (Fc Chimera Active) (ab267357)

Functional analysis of ab267357.

Immobilized Mouse VEGF164, Tag Free at 2 µg/mL (100 µL/well) can bind ab267357 with a linear range of 2-31 ng/mL.

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