

## VEGFA Antibody (RQ4390)

Catalog No.	Formulation	Size
RQ4390	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q00731
<b>Applications</b>	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml (recombinant mouse protein) (BSA-free format available)
<b>Limitations</b>	This VEGFA antibody is available for research use only.



Western blot testing of 1) mouse thymus, 2) mouse HEPA1-6 and 3) rat C6 cell lysate with VEGFA antibody at 0.5ug/ml. Expected molecular weight 19~22 kDa (monomer) and 38~44 kDa (dimer). Banding may appear larger than predicted due to glycosylation.

## Description

Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. May play a role in increasing vascular permeability during lactation, when increased transport of molecules from the blood is required for efficient milk protein synthesis (By similarity). Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. [UniProt]

## Application Notes

Optimal dilution of the VEGFA antibody should be determined by the researcher.

## Immunogen

A mouse partial recombinant protein corresponding to amino acids A27-N190 was used as the immunogen for the VEGFA antibody.

## Storage

After reconstitution, the VEGFA antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.