



Datasheet for ABIN707186
anti-VEGFA antibody (AA 141-180)



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Overview

Quantity:	100 µL
Target:	VEGFA
Binding Specificity:	AA 141-180
Reactivity:	Human, Rat, Mouse, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human VEGF-A
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	VEGFA
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Target Details

Alternative Name: [VEGF-A \(VEGFA Products\)](#)

Background: Synonyms: VPF, VEGF, MVCD1, Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VEGFA
Background: 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. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.

Gene ID: 7422

UniProt: [P15692](#)

Pathways: [RTK Signaling](#), [Glycosaminoglycan Metabolic Process](#), [Regulation of Cell Size](#), [Tube Formation](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Platelet-derived growth Factor Receptor Signaling](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

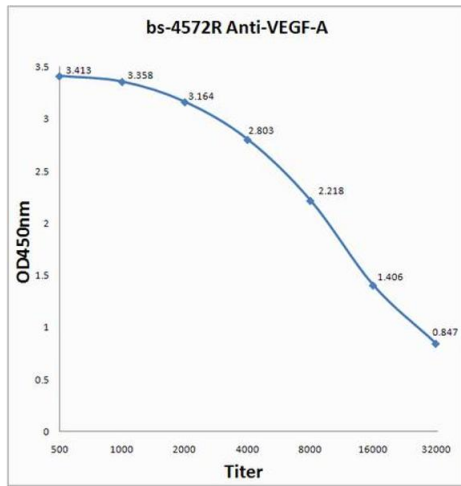
Product cited in: Fetoni, Eramo, Paciello, Rolesi, Samengo, Paludetti, Troiani, Pani: "The redox protein p66(shc) mediates cochlear vascular dysfunction and transient noise-induced hearing loss." in: **Scientific reports**, Vol. 6, pp. 25450, (2016) ([PubMed](#)).

Shi, Ko, Ko, Kim, Ko: "Peptide Lv augments L-type voltage-gated calcium channels through vascular endothelial growth factor receptor 2 (VEGFR2) signaling." in: **Biochimica et biophysica acta**, Vol. 1853, Issue 5, pp. 1154-64, (2015) ([PubMed](#)).

Wang, Liao, Wang, Deng, Yu: "Transplantation of bone marrow stromal cells overexpressing human vascular endothelial growth factor 165 enhances tissue repair in a rat model of radiation-induced injury." in: **Chinese medical journal**, Vol. 127, Issue 6, pp. 1093-9, (2014) ([PubMed](#)).

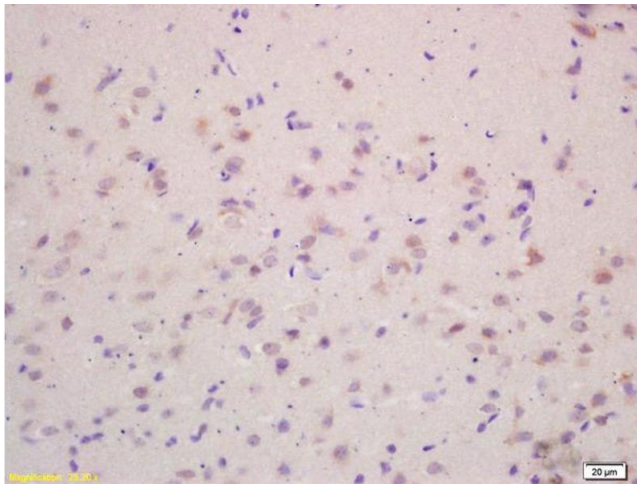
Fetoni, Lattanzi, Eramo, Barba, Paciello, Moriconi, Rolesi, Michetti, Troiani, Paludetti: "Grafting and early expression of growth factors from adipose-derived stem cells transplanted into the cochlea, in a Guinea pig model of acoustic trauma." in: **Frontiers in cellular neuroscience**, Vol. 8, pp. 334, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



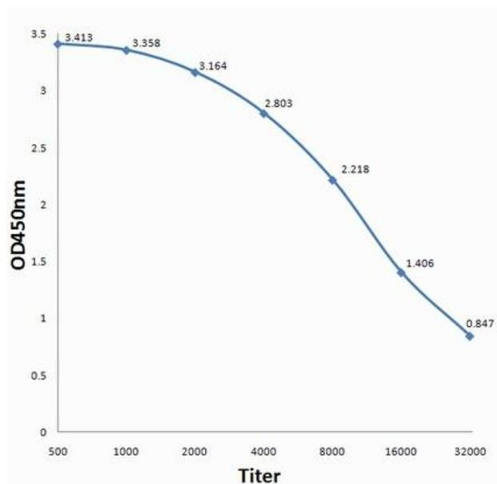
ELISA

Image 1. Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti VEGF-A Polyclonal Antibody, Unconjugated (ABIN707186) at 1:200 followed by conjugation to the secondary antibody and DAB staining



ELISA

Image 3. Antigen: 0.2ug/100ul, Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm