

## ARG56584 anti-VEGF antibody [4B2-8]

Package: 200 µg, 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [4B2-8] recognizes VEGF
Tested Reactivity	Hu
Predict Reactivity	Rat
Tested Application	ELISA, Neut, WB
Host	Mouse
Clonality	Monoclonal
Clone	4B2-8
Isotype	IgG1, kappa
Target Name	VEGF
Species	Human
Immunogen	E. coli derived Recombinant Human VEGF. (APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVPT TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCCK NTDSRCKARQ LELNERTCRC DKPRR)
Conjugation	Un-conjugated
Alternate Names	MVCD1; Vascular permeability factor; VEGF-A; VPF; VEGF; Vascular endothelial growth factor A

### Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 2.0 - 4.0 µg/ml with ARG56586 (Biotin-conjugated) as the detection antibody at 0.25-1.0 µg/ml.
	Neut	≤ 0.2 µg/ml (To yield [ND50] of the biological activity of Human VEGF (10 ng/ml) )
	WB	0.25 - 0.50 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links

[GeneID: 7422 Human](#)

[Swiss-port # P15692 Human](#)

Gene Symbol

VEGFA

Gene Full Name

vascular endothelial growth factor A

Background

This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein 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. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008]

Function

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. [UniProt]

Highlight

Related Antibody Duos and Panels:

[ARG30295 VEGF ELISA Antibody Duo](#)

Related products:

[VEGF antibodies](#); [VEGF ELISA Kits](#); [VEGF Duos / Panels](#); [VEGF recombinant proteins](#); [Anti-Mouse IgG secondary antibodies](#);

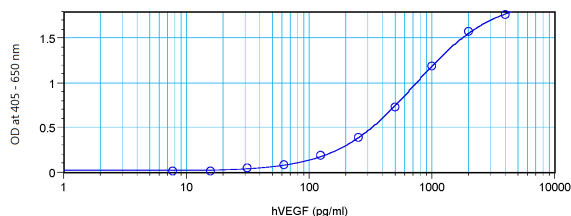
Related news:

[The role of HDGF in tumor angiogenesis](#)

Calculated Mw

27 kDa

## Images



ARG56584 anti-VEGF antibody [4B2-8] standard curve image

Sandwich ELISA: ARG56584 anti-VEGF antibody [4B2-8] as the capture antibody at 2.0 - 4.0 µg/ml combined with [ARG56586](#) anti-VEGF antibody (Biotin) as the detection antibody at 0.25 - 1.0 µg/ml. Results of a typical standard run with optical density reading at 405 - 650 nm.