ARG10513
anti-VEGF antibody [VG-1]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [VG-1] recognizes VEGF
Tested Reactivity	Hu, Ms, Rat, Dog, Rb
Species Does Not React With	Cow
Tested Application	ELISA, ICC/IF, IHC-Fr, IHC-P, IP, WB
Specificity	Detects the 121, 165 and 189 VEGF isoforms in fixed specimens.
Host	Mouse
Clonality	Monoclonal
Clone	VG-1
Isotype	IgG1
Target Name	VEGF
Immunogen	Recombinant VEGF 189 protein.
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	Assay-dependent.
ICC/IF	5 µg/ml
IHC-Fr	Assay-dependent.
IHC-P	Assay - dependent
IP	1:1000
WB	5 - 10 µg/ml

Application Note

WB: Suggested blocking buffer: 3% milk blocking for 1 hr at RT (better than at 4°C, overnight). Recommend primary and secondary dilution buffer: TBST.
IHC-P: Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0 (recommended) or citrate buffer pH6.0.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control

Corpus luteum, VEGF165 recombinant protein, astrocytoma or hemoangiosarcoma.

Properties

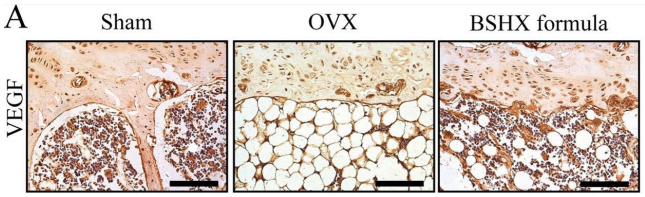
Form	Liquid

Purification	Purified by affinity chromatography.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
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 or below. 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

Gene Symbol	VEGFA
Gene Full Name	Vascular endothelial growth factor A
Background	VEGF is an angiogenic growth factor and a prognostic indicator for cancer when detected in serum. VG-1 is useful for studies of VEGF and angiogenesis in human pathological material.
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 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
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	16 - 45 kDa

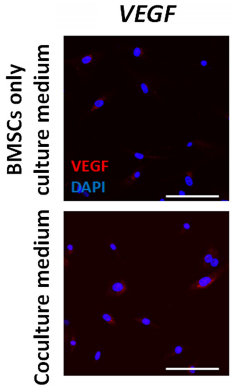
Images



ARG10513 anti-VEGF antibody [VG-1] IHC-P image

Immunohistochemistry: Mouse formula stained with ARG10513 anti-VEGF antibody [VG-1].

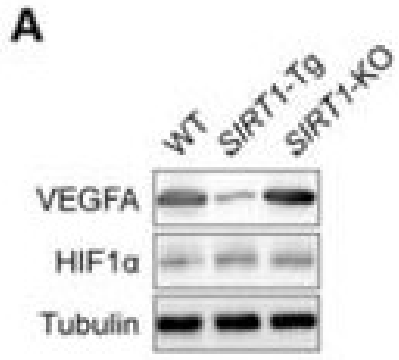
From Chenjie Xia et al. J Orthop Surg Res. (2023), doi: 10.1186/s13018-023-03696-7, Fig. 7A.



ARG10513 anti-VEGF antibody [VG-1] ICC/IF image

Immunofluorescence: Rabbits treated with ARG10513 anti-VEGF antibody [VG-1].

From Cheng-Chang Lu et al. Bone Joint Res ., (2023) doi: doi.org/10.1302/2046-3758.121.BJR-2021-0434.R2, Fig. 6C.



ARG10513 anti-VEGF antibody [VG-1] WB image

Western blot: Mouse gastrocnemius stained with ARG10513 anti-VEGF antibody [VG-1].

From Yong-Qing Do et al. Theranostics. (2020), doi: 10.7150/thno.39320, Fig. 2A.