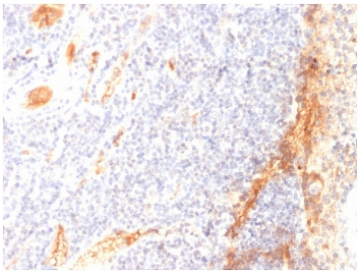
VEGF Antibody Clone VG1 / Vascular Endothelial Growth Factor Antibody [clone VG1] (V8154)

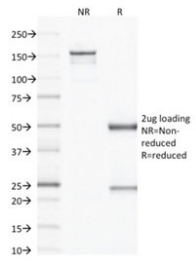
Catalog No.	Formulation	Size
V8154-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8154-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8154SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	VG1
Purity	Protein G affinity chromatography
UniProt	P15692
Applications	ELISA (order BSA-free format for coating) Immunohistochemistry (FFPE): 2-4ug/ml
Limitations	This VEGF Antibody Clone VG1 / Vascular Endothelial Growth Factor Antibody is available for research use only.



VEGF Antibody Clone VG1 Human Tonsil IHC. Immunohistochemical staining of FFPE human tonsil tissue using VEGF Antibody (clone VG1). HIER was performed by boiling tissue sections in pH 9 Tris-EDTA buffer for 10-20 minutes prior to staining. An HRP-conjugated secondary antibody with DAB substrate was used for detection. VEGF Antibody Clone VG1 / Vascular Endothelial Growth Factor Antibody demonstrates VEGF expression in vascular and stromal-associated regions, consistent with the role of VEGF in endothelial cell signaling, angiogenesis regulation, and tissue remodeling pathways.



SDS-PAGE analysis of purified, BSA-free VEGF antibody (clone VG1) as confirmation of integrity and purity.

Description

VEGF Antibody Clone VG1 / Vascular Endothelial Growth Factor Antibody recognizes vascular endothelial growth factor (VEGF), a secreted signaling protein that plays a central role in angiogenesis, vascular permeability, and endothelial cell regulation. VEGF binds specific tyrosine kinase receptors on endothelial cells, primarily VEGFR1 and VEGFR2, activating pathways that promote endothelial proliferation, migration, survival, and new blood vessel formation. These processes are essential for normal vascular development and tissue repair but also contribute to pathological angiogenesis associated with cancer and other diseases.

VEGF is one of the most extensively studied regulators of tumor angiogenesis. Hypoxic tumor environments stimulate VEGF expression through HIF-dependent signaling pathways, leading to increased vascular growth that supports tumor expansion and metastatic progression. Detection of VEGF expression by immunohistochemistry is widely used in cancer research to evaluate angiogenic activity and changes within the tumor microenvironment. VEGF Antibody Clone VG1 is a well-established monoclonal antibody that has been referenced in numerous publications studying VEGF expression across cancer, vascular biology, and disease research models.

In addition to oncology research, VEGF signaling contributes to cardiovascular biology, inflammatory responses, wound healing, and tissue remodeling. Regulation of VEGF expression influences endothelial barrier function, vascular remodeling, and communication between endothelial cells and surrounding tissues. Because VEGF is a key mediator connecting hypoxia responses with vascular growth, antibodies targeting VEGF remain important tools for studying angiogenesis-related pathways and disease mechanisms.

For additional information about VEGFA biology, validated applications, and related products, learn more about our VEGF Antibody, an Angiogenesis Growth Factor Antibody for investigating endothelial signaling, tumor angiogenesis, vascular remodeling, and VEGF-mediated growth factor pathways.

Application Notes

Optimal dilution of the VEGF Antibody Clone VG1 / Vascular Endothelial Growth Factor Antibody should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for the VEGF antibody.

Storage

Store the VEGF antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

VEGFA Antibody, Vascular Endothelial Growth Factor A Antibody, VEGF-A Antibody, Vascular Permeability Factor Antibody, VPF Antibody, Angiogenesis Factor Antibody

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