

**Name: Purified VEGF mouse monoclonal antibody, clone 4G3**  
**Product Data Sheet**

**Catalog: TA500042**

Gene Name: Homo sapiens vascular endothelial growth factor A (VEGFA), transcript variant 1  
 GeneBank accession: NM\_001025366  
 Isotype: Ig2b

Reactivity: Human  
 Test application: WB  
 Clone Name: clone 4G3

**Gene Synonym:** MGC70609; MVCD1; VEGF; VEGF-A; VPF; VEGF; VEGF-A; VPF; vascular endothelial growth factor isoform VEGF165; vascular permeability factor; vascular endothelial growth factor A

**Validation Data:**

**Western Blot**

**Guaranteed Applications:** WB

**Suggested Dilutions:** Western blot: 1:5000

**Immunogen:** Recombinant protein expressed in E.coli corresponding to amino acids 27-233 of human VEGF

**Components:**

- Purified VEGF mouse monoclonal antibody, clone 4G3 (TA500042)
- 1 vial of 20ug myc-DDK tagged VEGFA HEK293T over-expression lysate lyophilized in RIPA buffer (LY422439) (Reconstitute into 20ul of 1x SDS sample buffer before loading)  
(Not available for 30ul sample size)

**Amount:**

TA500042-100 100 uL

**Concentration:** 0.5-1.0 mg/ml

**Storage Condition:** Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

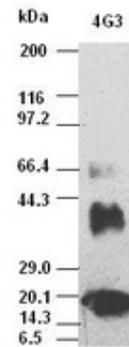
**Buffer:** PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

**Purification:**

Purified from mouse ascites fluids by affinity chromatography

**Background:**

VEGF is a member of the PDGF/VEGF growth factor family that is often found as a disulfide linked homodimer. It 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 VEGF gene have been associated with proliferative and nonproliferative diabetic retinopathy.



VEGF antibody ( 4G3 ) at 1:5000 dilution + Recombinant human VEGF165

**Related Product:**

TrueORF cDNA clones  
 VERIFY Tagged Antigen lysates  
 HuSH-29 shRNA  
 Western Blot reagents  
 Anti-myc/DDK tag antibodies

\* Peptide sequence of the DDK-tag (Flag®): N-DYKDDDDK-C Flag® is a registered trademark of Sigma-Aldrich

\* More validation images may be available on our website:  
<http://www.origene.com/antibody/TA500042.aspx>

***This product is to be used for laboratory only. Not for diagnostic or therapeutic use.***

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