OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA500289M

VEGFA Mouse Monoclonal Antibody [Clone ID: OTI4E3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4E3
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:200 - 1:1000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 27-233 of human VEGFA (NP_003367) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.8 kDa
Gene Name:	vascular endothelial growth factor A
Database Link:	NP_001020537 Entrez Gene 22339 MouseEntrez Gene 83785 RatEntrez Gene 7422 Human P15692

View online »

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.

Synonyms: MVCD1; VEGF; VPF

Note: WB application: Only overexpression results are guaranteed, not endogenous.

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, VEGF signaling pathway

Product images:

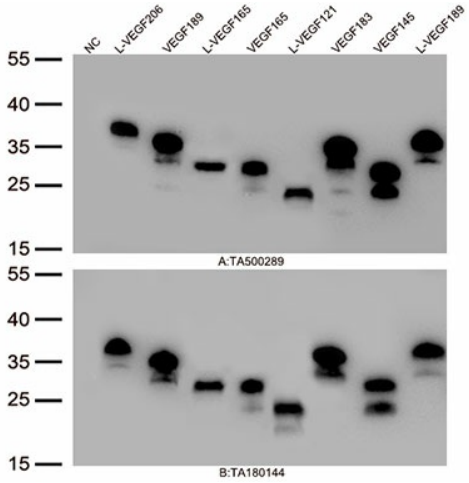
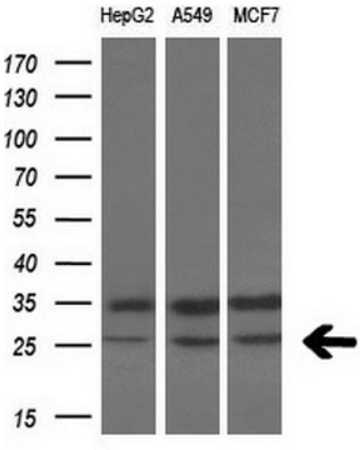
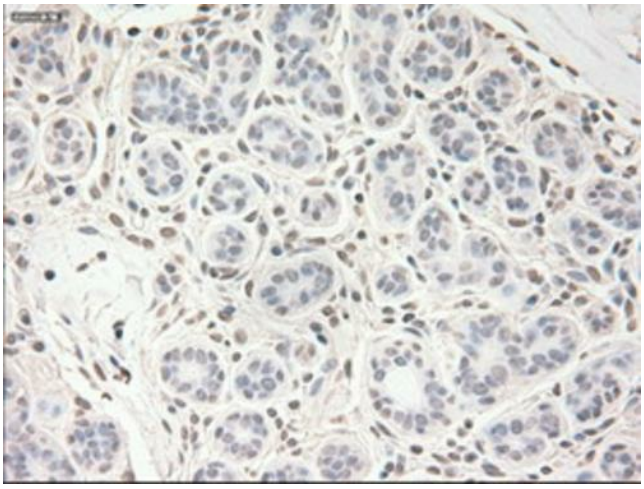


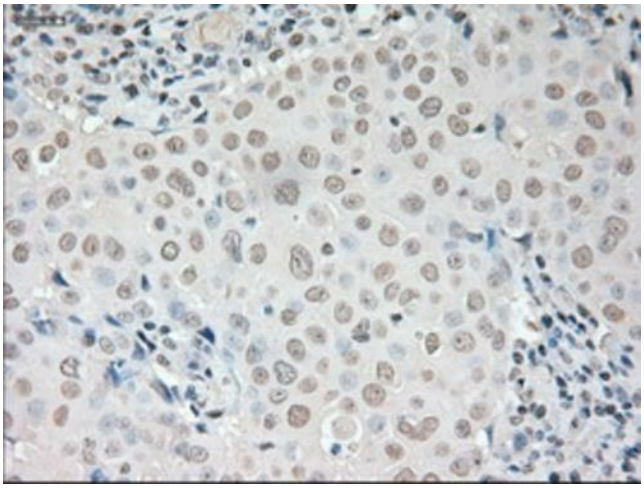
Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human VEGF plasmid ([RC223789], hL-VEGF206), human VEGF plasmid ([RC229706], hVEGF189), human VEGF plasmid ([RC223884], hL-VEGF165), human VEGF plasmid ([RC229662], hVEGF165), human VEGF plasmid ([RC222129], hL-VEGF121), human VEGF plasmid ([RC229686], hVEGF183), human VEGF plasmid ([RC231952], hVEGF145), human VEGF plasmid ([RC224244], hL-VEGF189) using anti-VEGF antibody [TA500289] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



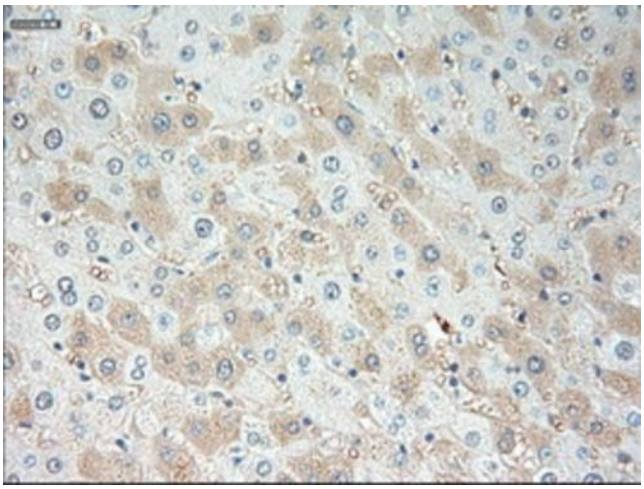
Western blot analysis of extracts (10ug) from 3 different cell lines by using anti-VEGF monoclonal antibody (1:200).



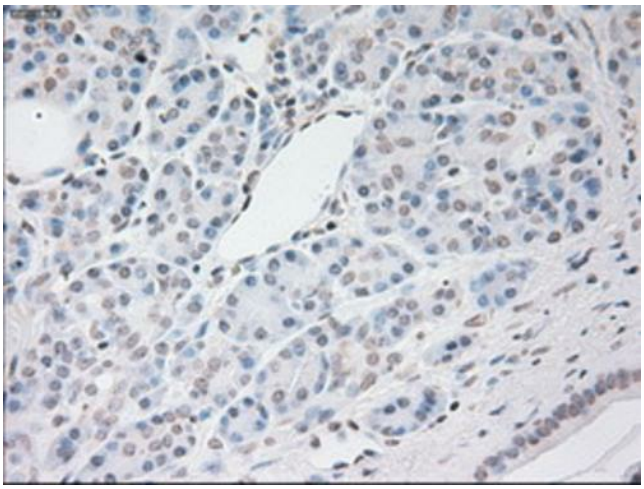
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-VEGF mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



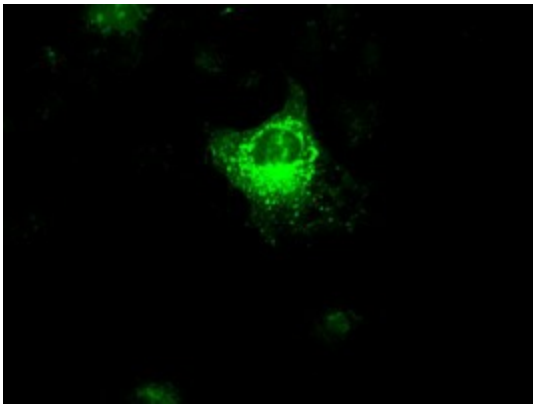
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-VEGF mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-VEGF mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-VEGF mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-VEGF mouse monoclonal antibody ([TA500289]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY VEGF ([RC223789]).