

À des fins de recherche uniquement

# Anticorps Monoclonal anti-NeutraKine®VEGF165/121



Numéro de catalogue: 69025-1-Ig **1 Publications**

## Informations de base

Numéro de catalogue: 69025-1-Ig	Numéro d'acquisition GenBank: 7422	Méthode de purification: Purification par protéine G
Taille: 100ug	Identification du gène (NCBI): 7422	CloneNo.: 6C3D5
Hôte: Mouse	Nom complet: vascular endothelial growth factor A	
Isotype: IgG1		
Immunogen Catalog Number: HZ-1038		

## Applications

**Applications testées:**  
Neutralization, ELISA

**Demandes citées:**  
ELISA

**Spécificité de l'espèce:**  
Humain

**Espèces citées:**  
Humain

## Informations générales

VEGFA, also named as VEGF or VPF, belongs to the PDGF/VEGF growth factor family. It is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. VEGFA induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Defects in VEGFA are associated with microvascular complications of diabetes type 1 (MVCD1). VEGFA has 17 isoforms with MW from 16 to 45 kDa. Some isoforms have homodimer forms (e.g.: VEGFA189 38 kDa or VEGFA110 34 kDa). VEGF-A exists in at least seven homodimeric isoforms. The monomers consist of 121, 145, 148, 165, 183, 189, or 206 amino acids (PMID:15602010).

This antibody is used to neutralize the bioactivity of VEGF165/121. ELISA test suggests that this antibody recognize VEGF165 and VEGF121. According to sequence similarity, it may recognize other isoforms.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Xueying Fan	37062842	J Transl Med	ELISA

## Stockage

**Stockage:**  
Les anticorps lyophilisés sont stables pendant 1 an à compter de la date de réception s'ils sont stockés à une température comprise entre -20 °C et -80 °C. Après reconstitution, nous recommandons que la solution soit stockée à (4 °C) pour une courte durée ou à une température comprise entre (-20 °C) et (-80 °C) pour une longue durée. Il convient d'éviter les cycles répétés de congélation-décongélation avec les produits reconstitués.

**Tampon de stockage:**  
PBS stérile.

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

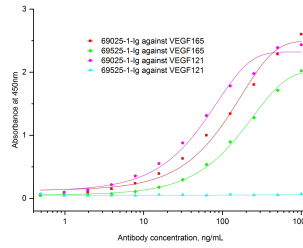
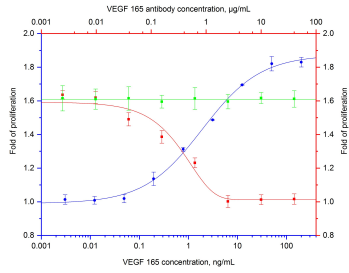
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Données de validation sélectionnées



Recombinant human VEGF165 (Cat.NO. HZ-1038) stimulates proliferation of HUVEC (human umbilical vein endothelial) cell line in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human VEGF165 (10 ng/mL HZ-1038) is neutralized by mouse anti-human VEGF165/121 monoclonal antibody 69025-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 0.5-2 µg/mL. The NeutraControl mouse anti-human VEGF165



Indirect ELISA was carried out by coating recombinant Human VEGF165 (Cat.NO. HZ-1038) and VEGF121 (Cat.NO. HZ-1204) respectively at 70 ng/well followed by blocking and adding serial diluted VEGF165/121 antibody 69025-1-Ig and VEGF165 antibody 69525-1-Ig respectively. HRP-goat anti-mouse was used for detection. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. The result suggests that

