Nur für Forschungszwecke

NeutraKine®VEGF165/121 Monoklonaler Antikörper

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Katalog-Nr.:69025-1-Ig 1 Publikationen

Allgemeine Informationen

Katalog-Nr.:
69025-1-Ig

Größe:
100ug

Wirt:
Maus

Isotyp:
IgG1

Immunogen Katalognummer:
HZ-1038

GenBank-Zugangsnummer:

GeneID (NCBI):
7422

Vollständiger Name:
vascular endothelial growth factor A

Reinigungsmethode:
Protein-G-Reinigung

CloneNo.:
6C3D5

Anwendungen

Geprüfte Anwendungen:
Neutralization, ELISA

In Publikationen genannte Anwendungen:
ELISA

Getestete Reaktivität:
Human

Zitierte Arten:
Human

Hintergrundinformationen

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 VEFGA110 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.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Xueying Fan	37062842	J Transl Med	ELISA

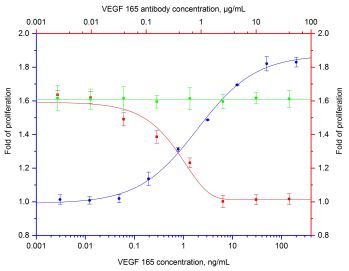
Lagerung

Lagerungsbedingungen:
Lyophilisierte Antikörper sind bei Lagerung zwischen (-20°C) und (-80°C) 1 Jahr ab Empfangsdatum stabil. Bei Rekonstitution empfehlen wir, die Lösung kurzfristig bei (4°C) oder langfristig bei (-20°C) bis (-80°C). Rekonstituierte Produkte sollten nicht wiederholt eingefroren und wieder aufgetaut werden.
Lagerungspuffer:
Sterile PBS.
Aliquotieren ist nicht notwendig bei -20°C lagerung

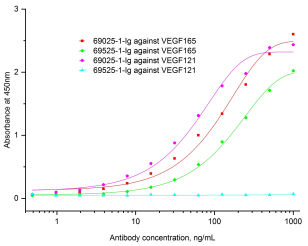
*** 20ul-Größen enthalten 0.1% BSA

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

Ausgewählte Validierungsdaten



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 suggsts that