

Anti-VEGFA antibody ab51745

★★★★★ [2 Abreviews](#) [66 References](#) [2 图像](#)

概述

产品名称	Anti-VEGFA抗体
描述	兔多克隆抗体to VEGFA
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Human, Recombinant fragment
免疫原	Recombinant full length protein corresponding to Mouse VEGFA. Recombinant mouse VEGF164 Database link: Q00731
阳性对照	IHC-P: Mouse E17 ventricular zone of the CNS & human glioblastoma, perinecrotic area. WB: Recombinant mouse VEGF164 & recombinant human VEGF165.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Lyophilized: The lyophilized IgG is stable at 4°C for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile water to a concentration of >0.5 mg/ml the antibody is stable for at least six weeks at 2-4°C.
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	Constituent: PBS
纯度	Protein A purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab51745于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	Use a concentration of 0.1 - 1 µg/ml. Predicted molecular weight: 27 kDa. The detection limit for recombinant murine VEGF-A is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
IHC-P	★★★★★ (1)	Use a concentration of 2 - 10 µg/ml.

靶标

功能

Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.

组织特异性

Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.

疾病相关

Defects in VEGFA are a cause of susceptibility to microvascular complications of diabetes type 1 (MVCD1) [MM:603933]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.

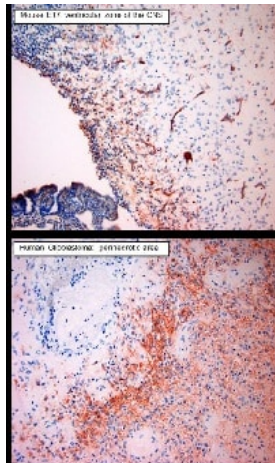
序列相似性

Belongs to the PDGF/VEGF growth factor family.

细胞定位

Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

图片



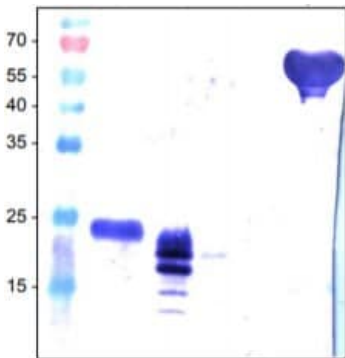
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGFA antibody (ab51745)

Staining of VEGF-A in paraffin-embedded mouse ventricular zone of the CNS (E17) and a perinecrotic area of a human glioblastoma.

Top panel: Mouse E17: ventricular zone of the CNS.

Bottom panel: Human glioblastoma: perinecrotic area.

The experiments were performed by Dr. Till Acker and Prof. K.H. Plate, Neurological Institute, Neuropathology, Deutschordenstr. 45, 60528 Frankfurt, Germany



Western blot - Anti-VEGFA antibody (ab51745)

All lanes : Anti-VEGFA antibody (ab51745)

Lane 1 : recombinant mouse VEGF164

Lane 2 : Recombinant human VEGF165

Lane 3 : Recombinant human PlGF-1

Lane 4 : Recombinant rat VEGF-C

Predicted band size: 27 kDa

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