
Product Name: KD-Validated Vascular Endothelial Growth Factor D Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00887

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 40.4kDa

Antigen Information

Gene Name	VEGFD
Alternative Names	VEGFD; Vascular Endothelial Growth Factor D; VEGF-D; FIGF; C-Fos Induced Growth Factor (Vascular Endothelial Growth Factor D); C-Fos-Induced Growth Factor
Gene ID	2277.0
SwissProt ID	O43915
Immunogen	A synthesized peptide derived from human beta VEGFD

Background

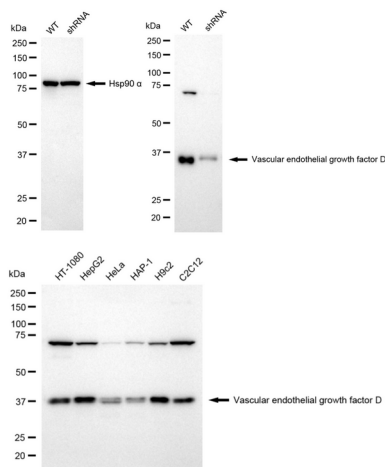
The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. This secreted protein

undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor C. Read-through transcription has been observed between this locus and the upstream PIR (GeneID 8544) locus. [provided by RefSeq, Feb 2011]

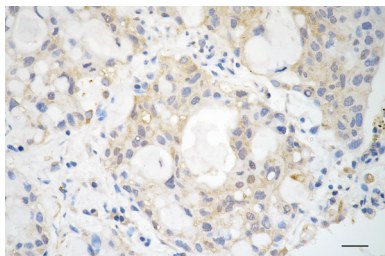
Research Area

Cardiovascular, Signal Transduction, Cancer

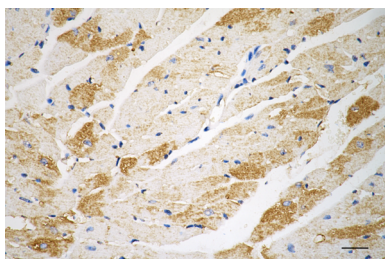
Image Data



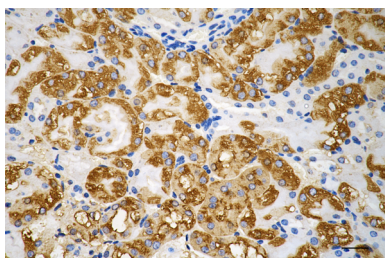
Western blotting analysis using Vascular endothelial growth factor D antibody (KVA00887). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Vascular endothelial growth factor D antibody (KVA00887, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



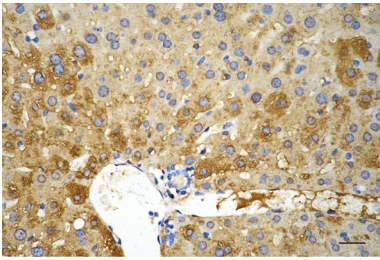
Immunohistochemistry was performed on paraffin-embedded human lung adenocarcinoma using vascular endothelial growth factor D antibody (KVA00887, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



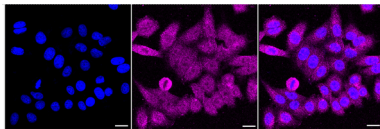
Immunohistochemistry was performed on paraffin-embedded mouse heart using vascular endothelial growth factor D antibody (KVA00887, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



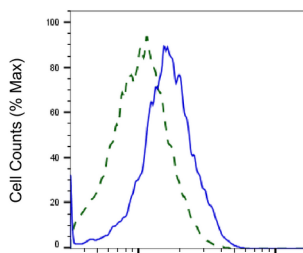
Immunohistochemistry was performed on paraffin-embedded mouse kidney using vascular endothelial growth factor D antibody (KVA00887, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded mouse liver using vascular endothelial growth factor D antibody (KVA00887, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μ m.

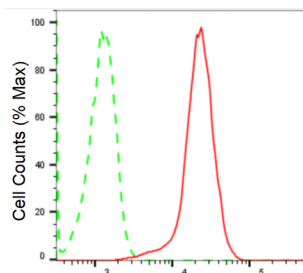


Immunocytochemical staining of HepG2 cells with Vascular endothelial growth factor D antibody (KVA00887, 1:1,000). Nuclei were stained blue with DAPI; Vascular endothelial growth factor D was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Vascular endothelial growth factor D-Alexa Fluor® 647

Validation of Vascular endothelial growth factor D knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Vascular endothelial growth factor D antibody (KVA00887, 1:2,000) and analyzed using BD flow cytometer.



Vascular endothelial growth factor D-Alexa Fluor® 647

Flow cytometric analysis of Vascular endothelial growth factor D expression in HepG2 cells using Vascular endothelial growth factor D antibody (KVA00887, 1:2,000). Green, isotype control; red, Vascular endothelial growth factor D.