

Rabbit Anti-Human VEGF-D Monoclonal Antibody

Cat. No. CAB11546RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human VEGF-D
Species	Human
Source	Rabbit
Antigen Description	Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), is a vascular endothelial growth factor. This secreted protein is a member of the platelet derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and performs activities in angiogenesis, lymphangiogenesis, and endothelial cell growth. Human VEGF-D is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. It is structurally and functionally similar to VEGF-C, and is secreted as a non-covalent homodimer in an antiparallel fashion. VEGF-D undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. Like VEGFC, it may particularly be involved in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults.
Specificity	Human VEGF-D / FIGF / VEGFD. No cross-reactivity in ELISA with human VEGF-C / Flt4-Land human cell lysate (293 cell line)
Immunogen	Recombinant human VEGF-D protein
Isotype	Rabbit IgG

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Cross Reactivity	201
Clone	A202
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human VEGF-D in WB. Using a DAB detection system, the detection limit for human VEGF-D is approximately 0.5 ng/lane under non-reducing conditions and 50 ng/lane under reducing conditions ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human VEGF-D. The detection limit for human VEGF-D is approximately 0.0049 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human VEGF-D.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	FIGF c-fos induced growth factor (vascular endothelial growth factor D) [Homo sapiens]
Official Symbol	FIGF

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Synonyms	FIGF; c-fos induced growth factor (vascular endothelial growth factor D); VEGFD; vascular endothelial growth factor D; VEGF D; VEGF-D;
Gene ID	2277
mRNA Refseq	NM_004469
Protein Refseq	NP_004460
MIM	300091
UniProt ID	O43915
Chromosome Location	Xp22.31
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;
Function	chemoattractant activity; growth factor activity; platelet-derived growth factor receptor binding; protein homodimerization activity; vascular endothelial growth factor receptor 3 binding; vascular endothelial growth factor receptor binding;