

Datasheet for ABIN3044291
anti-VEGFD antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	VEGFD (Figf)
Binding Specificity:	AA 101-115, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFD antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor D(FIGF) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human VEGFD(101-115aa VIDEEWQRTQCSPRE), identical to the related rat and mouse sequences.
Sequence:	VIDEEWQRTQ CSPRE
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor D(FIGF) detection. Tested

Product Details

with WB, IHC-P in Human,Mouse,Rat.

Gene Name: c-fos induced growth factor(vascular endothelial growth factor D)(VEGF-D)

Protein Name: Vascular endothelial growth factor D

Purification: Immunogen affinity purified.

Target Details

Target: VEGFD (Figf)

Alternative Name: VEGF-D ([Figf Products](#))

Background: C-fos induced growth factor(FIGF)(or vascular endothelial growth factor D, VEGF-D) is a vascular endothelial growth factor that in humans is encoded by the FIGF gene. 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. Analyzing by Northern blotting, Yamada et al.(1997) symbolized VEGFD, was expressed as a 2.2-kb transcript with highest expression in lung, heart, small intestine, and fetal lung, and lower levels in skeletal muscle, colon, and pancreas. And Achen et al.(1998) concluded that VEGFD was most closely related to VEGFC by virtue of the presence of N- and C-terminal extensions that were not found in other VEGF family members. Stacker et al.(2001) showed that VEGFD can induce tumor angiogenesis through VEGFR2 and tumor lymphangiogenesis through VEGFR3, whereas VEGF, which does not activate VEGFR3, induces only tumor angiogenesis.

Synonyms: c-fos induced growth factor antibody|c-fos induced growth factor(vascular endothelial growth factor D) antibody|c-fos-induced growth factor antibody|FIGF antibody|Vascular endothelial growth factor D antibody|Vascular endothelial growth factor D precursor antibody|VEGF D antibody|VEGF-D antibody|VEGFD antibody|VEGFD_HUMAN antibody

UniProt: [O43915](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for

Application Details

20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

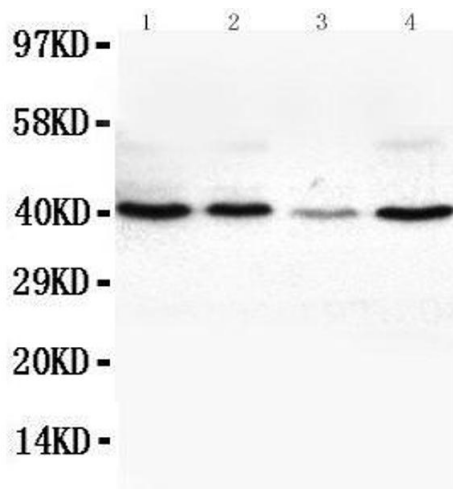
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Qi, Du, Chen, Chen, Yi, Chen, Wen, Wei, Zhao: "VEGF-D-enhanced lymph node metastasis of ovarian cancer is reversed by vesicular stomatitis virus matrix protein." in: **International journal of oncology**, Vol. 49, Issue 1, pp. 123-32, (2017) ([PubMed](#)).



Western Blotting

Image 1. Anti-VEGFD antibody, Western blotting Lane 1: SW620 Cell Lysate Lane 2: COLO320 Cell Lysate Lane 3: 6T-CEM Cell Lysate Lane 4: Cell Lysate