

RABBIT ANTI-VEGF-C PROPEPTIDE
POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB10601	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	0.25 mg/mL
CLONE NAME:	ZMD.83	HOST/ISOTYPE:	RABBIT
BACKGROUND:	<p>Vascular endothelial growth factors (VEGF) are structurally and functionally related growth factors, that may play important roles in the formation of vascular systems during embryonic development, in regulation of capillary growth in adults, and in maintenance of normal vasculature. VEGF-C is a ligand for receptor tyrosine kinase VEGFR-3 (Flt-4), which is mainly expressed in the endothelium of lymphatic vessels. VEGF-C mRNA has been detected in human heart, lung, muscle, ovary, placenta, and small intestine. It is also detected in many malignant tumors, including breast carcinomas, squamous cell carcinomas, lymphomas, melanomas, sarcomas and adenomas. VEGF-C is synthesized as a precursor protein called propeptide, which undergoes a series of proteolytic steps to give the mature form of VEGFC. The propeptide is cleaved and forms a homo-dimer between two identical propeptides.⁶ This dimer is then processed to form a secretable tetramer that consists of two 29 kDa and two 31 kDa peptides, which is then secreted extracellularly and processed to produce the mature form that consists of two 21 kDa peptides. Studies suggest the 29/31 kDa form is the most prevalent form of VEGF-C in many biological systems.</p>		
SPECIFICITY:	Recognizes VEGF-C Propeptide.		
IMMUNOGEN:	A synthetic peptide derived from the C-terminal sequence of propeptide form of VEGF-C.		
APPLICATIONS:	<p>ELISA: 0.1-1.0 µg/mL Western Blotting: 2-5 µg/mL</p> <p><i>Optimal working dilutions must be determined by end user.</i></p>		
SPECIES REACTIVITY:	Human (positive control: U937 cells)		
FORMAT:	The antibody is epitope-affinity-purified from rabbit antiserum.		
PRESENTATION:	400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide.		
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 12 months. Avoid repeated freeze/thaw cycles.		
REFERENCES:	<p>Li X <i>et al.</i> (2001). <i>Proc Natl Acad Sci.</i> 95(24): 14389-14394. Salven P <i>et al.</i> (1998). <i>Am J Pathol</i> 153(1): 103-108. <i>For research use only; not for use as a diagnostic.</i></p>		

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