

Product datasheet for **AP23353PU-N**

VEGFA (N-term) Rabbit Polyclonal Antibody

Product data:

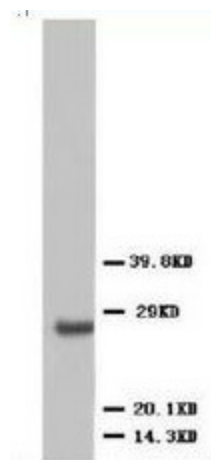
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: Use at 0.1-0.5 µg/ml with the appropriate system to detect VEGF in cells and tissues. Immunohistochemistry on Paraffin Sections: Use at 0.5-1 µg/ml to detect VEGF in formalin fixed and paraffin embedded tissues. Boiling the sections in 10mM citrate buffer, pH6.0, for 20mins is required.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence near the N-terminal end of VEGFA (aa 33-48 of Human origin).
Specificity:	This antibody detects VEGF-A near N-term. No cross reactivity with other proteins.
Formulation:	5 mg BSA, 0.9 mg NaCl, 0.2 mg Na_2HPO_4 State: Aff - Purified State: Lyophilized purified IgG fraction Preservative: 0.05 mg Thimerosal, 0.05 mg Sodium Azide
Reconstitution Method:	Restore with 0.2 ml of distilled water to a concentration of 0.5 mg/ml.
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	vascular endothelial growth factor A



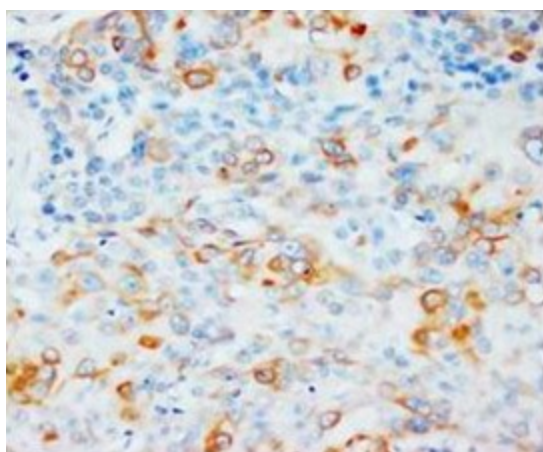
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Database Link:	Entrez Gene 22339 Mouse Entrez Gene 83785 Rat Entrez Gene 7422 Human P15692
Background:	VEGF, a homodimeric glycoprotein of relative molecular mass 45,000, is the only mitogen that specifically acts on endothelial cells. It may be a major regulator of tumor angiogenesis <i>in vivo</i> . Vascular endothelial growth factor is a mitogen primarily for vascular endothelial cells. It is, however, structurally related to platelet-derived growth factor. VEGF shares homology with the PDGF A chain and B chain, including conservation of all 8 cysteines found in PDGFA and PDGFB. VEGF gene contains 8 exons. Vascular endothelial growth factor (VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. VEGF regulates haematopoietic stem cell survival by an internal autocrine loop mechanism. Vascular endothelial growth factor (VEGF) stimulates neurogenesis <i>in vitro</i> and <i>in vivo</i> .
Synonyms:	VEGFA, VEGF, VPF, Vascular endothelial growth factor A, Vascular permeability factor
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, VEGF signaling pathway

Product images:



Western blot analysis of rat cardiac muscle tissue lysis using VEGF antibody



Immunohistochemical analysis of paraffin embedded ESCC sections, staining VEGF in cytoplasm, DAB chromogenic reaction