



Anti-VEGFA (N-terminal) polyclonal antibody (DPAB2012RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit anti-human vascular endothelial growth factor polyclonal antibody is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretati
Antigen Description	Vascular endothelial growth factor (VEGF) is a signal protein produced by cells that stimulates vasculogenesis and angiogenesis. It is part of the system that restores the oxygen supply to tissues when blood circulation is inadequate. Serum concentration of VEGF is high in Bronchial Asthma and low in Diabetes Mellitus VEGF's normal function is to create new blood vessels during embryonic development, new blood vessels after injury, muscle following exercise, and new vessels (collateral circulation) to bypass blocked vessels.
Specificity	This antibody reacts with a 19-22 kD (reduced) protein. Vascular endothelial growth factor (VEGF) is a homodimeric, disulfidelinked glycoprotein involved in angiogenesis which promotes tumor progression and metastasis. This antibody reacts with 165, 189,
Immunogen	A synthetic peptide from N-terminus of human VEGF.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	IHC
Cellular Localization	Cytoplasmic, cell membrane, extracellular matrix
Positive Control	Hemangiosarcoma

Format	Purified immunoglobulin fraction of rabbit antiserum against VEGF containing sodium azide as a preservative.
Preservative	See individual product datasheet
Storage	Store at 2-8°C. Do not use beyond the expiration date stated on the label.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Synonyms	VEGFA; vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascular permeability factor; VEGF-A; Vascular permeability factor; vascular endothelial growth factor; MGC70609; OTTHUMP00000224153; OTTHUMP00000224154; OTTHUMP00000224423; OTTHUMP00000224424; OTTHUMP00000224425; OTTHUMP00000016487; OTTHUMP00000224426; OTTHUMP00000016488; OTTHUMP00000224427; OTTHUMP00000165985; OTTHUMP00000224428; OTTHUMP00000165986; OTTHUMP00000224429; OTTHUMP00000165987; OTTHUMP00000224430; OTTHUMP00000224107; OTTHUMP00000224108; OTTHUMP00000224109
Entrez Gene ID	7422
Protein Refseq	NP_001020537
UniProt ID	P15692
Chromosome Location	6p12
Pathway	Bladder cancer; Cytokine-cytokine receptor interaction; Endochondral Ossification; Focal adhesion; Glypican 1 network; HIF-1-alpha transcription factor network; HIF-2-alpha transcription factor network; Heart Development; Hemostasis; Hypertrophy Model; Id Signaling Pathway; Integrins in angiogenesis; Neurophilin interactions with VEGF and VEGFR; Pancreatic cancer; Pathways in cancer; Platelet activation; Platelet degranulation; Renal cell carcinoma; Response to elevated platelet cytosolic Ca2+;
Function	cell surface binding; chemoattractant activity; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein binding; protein heterodimerization activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding