OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP26397PU-N Polyclonal Antibody to AGGF1 / VG5Q - Purified

Alternate names: Angiogenic factor VG5Q, Angiogenic factor with G patch and FHA domains 1, G patch domain-containing protein 7, GPATC7, GPATCH7, Vasculogenesis gene on 5q protein

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Uniprot ID: Q8N302

NCBI: NP_060516.2

GeneID: 55109

Host / Isotype: Rabbit / IgG

Immunogen: VG5Q functions as an angiogenic factor in promoting angiogenesis and suppression of VG5Q expression inhibits vessel formation. Angiogenic factors are critical to the initiation of angiogenesis and maintenance of the vascular network. Angiogenesis has an essential role in pathological conditions such as cancer and various ischaemic and inflammatory diseases.
VG5Q can bind to endothelial cells and promote cell proliferation, suggesting that the protein may act in an autocrine fashion. VG5Q interacts with TWEAK (also known as TNFSF12), another secreted angiogenic factor.
VG5Q shows strong expression in blood vessels and is secreted when vessel formation is initiated. VG5Q protein was detected mostly in the cytoplasm and around the nuclei of human microvascular endothelial cells (HMVECs). Furthermore VG5Q is detected in human umbilical vein endothelial cells (HUVECs), human heart fibroblast (HHF) and ovarian cancer cells (OV-3), but low expression was detected in kidney cancer cells (RP-45), HeLa Cells and bladder cancer cells.

Format: **State:** Liquid 0.2 µm filtered Ig fraction
Purification: Protein A
Buffer System: PBS
Preservatives: 0.02% sodium azide
Stabilizers: 0.1% bovine serum albumin

Applications: Immunohistochemistry on frozen sections.
Immunohistochemistry on paraffin sections.
Immunoassays.
Immunoprecipitation.
Western blot.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody reacts with human VG5Q, a 84 kDa protein.

Species Reactivity: **Tested:** Human

Storage: Store at 2 - 8 °C.
Shelf life: one year from despatch.

General Readings:

1. Tian XL, Kadaba R, You SA, Liu M, Timur AA, Yang L, et al. Identification of an angiogenic factor that when mutated causes susceptibility to Klippel-Trenaunay syndrome. Nature. 2004 Feb 12;427(6975):640-5. PubMed PMID: 14961121.