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VG5Q Rabbit pAb

Catalog # AP97497

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N302
Other Accession	Q8N302
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80977
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human VG5Q/AGGF1
Epitope Specificity	461-560/714
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 FHA domain.Contains 1 G-patch domain.
SUBUNIT	Interacts with the secreted angiogenic factor TNFSF12.
DISEASE	Defects in AGGF1 are a cause of Klippel-Trenaunay syndrome (KTS) [MIM:149000]. KTS is a congenital disease characterized by malformations of capillary (98% of KTS patients), venous (72%) and lymphatic (11%) vessels, and bony and soft tissue hypertrophy that leads to large cutaneous hemangiomata with hypertrophy of the related bones and soft tissues.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Angiogenic factors are critical to the initiation of angiogenesis and maintenance of the vascular network. VG5Q protein acts as a potent angiogenic factor in promoting angiogenesis, and suppression of VG5Q expression inhibits vessel formation. VG5Q shows strong expression in blood vessels and is secreted as vessel formation is initiated. VG5Q can bind to endothelial cells and promote cell proliferation, suggesting that it may act in an autocrine fashion. It also interacts with another secreted angiogenic factor, TWEAK (also known as TNFSF12). VG5Q is defective in patients with the vascular disease Klippel-Trenaunay syndrome (KTS).

Additional Information

Gene ID	55109
Other Names	GPATC7; GPATCH7; HSU84971; HUS84971; VG5Q; AGGF1_HUMAN; AGGF1; Angiogenic factor VG5Q (hVG5Q); G patch domain-containing protein 7; Vasculogenesis gene on 5q protein; angiogenic factor with G-patch and FHA domains 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AGGF1
Synonyms	GPATC7, GPATCH7, VG5Q
Function	Promotes angiogenesis and the proliferation of endothelial cells. Able to bind to endothelial cells and promote cell proliferation, suggesting that it may act in an autocrine fashion.
Cellular Location	Cytoplasm. Secreted. Note=Cytoplasmic in microvascular endothelial cells. Upon angiogenesis, when endothelial cell tube formation is initiated, it is secreted
Tissue Location	Widely expressed. Expressed in endothelial cells, vascular smooth muscle cells and osteoblasts. Expressed in umbilical vein endothelial cells and microvascular endothelial cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.