Product Name: SPEG Rabbit Polyclonal Antibody
Catalog #: APRab18180

Summary

Production Name	SPEG Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SPEG APEG1 KIAA1297
Alternative Names	
Gene ID	10290.0
SwissProt ID	Q15772.Synthesized peptide derived from part region of human protein

Application

Dilution Ratio	IHC 1:50-300
Molecular Weight	359kD

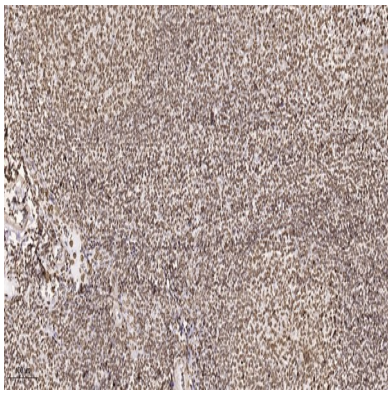
Background

This gene encodes a protein with similarity to members of the myosin light chain kinase family. This protein family is required for myocyte cytoskeletal development. Along with the desmin gene, expression of this gene may be controlled by

the desmin locus control region. Mutations in this gene are associated with centronuclear myopathy 5. [provided by RefSeq, Jun 2016],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Isoform 3 may have a role in regulating the growth and differentiation of arterial smooth muscle cells.,induction:Isoform 3 is quickly down-regulated in response to vascular injury, when ASMC cells change from a quiescent to a proliferative phenotype.,miscellaneous:Expression is under the tight control of the locus control region (LCRs).,PTM:May be autophosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 2 fibronectin type-III domains.,similarity:Contains 2 protein kinase domains.,similarity:Contains 9 Ig-like (immunoglobulin-like) domains.,subunit:Isoform 3 is found as a monomer or homodimer.,tissue specificity:Isoform 1 is preferentially expressed in striated muscle. Non-kinase form such as isoform 3 is predominantly espressed in the aorta. Isoform 3 appears to be expressed only in highly differentiated ASMC in normal vessel walls and down-regulated in dedifferentiated ASMC in vivo. In response to vascular injuries ASMC dedifferentiate and change from a quiescent and contractile phenotype to a proliferative and synthetic phenotype. This proliferation of vascular smooth muscle cells is one of the most prominent features of arteriosclerosis.,

Research Area

Image Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200（4° overnight.3,Secondary antibody was diluted at 1:200（room temperature, 45min）.

Note

For research use only.