

**APEG1 / SPEG Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3770a****Specification**

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**APEG1 / SPEG Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">Q15772</a>
Other Accession	<a href="#">NP_005867.3</a> , <a href="#">10290</a>
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	354289

**APEG1 / SPEG Antibody (internal region) - Additional Information****Gene ID** 10290**Other Names**

Striated muscle preferentially expressed protein kinase, 2.7.11.1, Aortic preferentially expressed protein 1, APEG-1, SPEG, APEG1, KIAA1297

**Dilution**

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

APEG1 / SPEG Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**APEG1 / SPEG Antibody (internal region) - Protein Information****Name** SPEG**Synonyms** APEG1, KIAA1297**Function**

Isoform 3 may have a role in regulating the growth and differentiation of arterial smooth muscle cells.

**Cellular Location**

[Isoform 3]: Nucleus.

**Tissue Location**

Isoform 1 is preferentially expressed in striated muscle. Non-kinase form such as isoform 3 is predominantly expressed 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 atherosclerosis.

**APEG1 / SPEG Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**APEG1 / SPEG Antibody (internal region) - Images****APEG1 / SPEG Antibody (internal region) - Background**

This antibody is expected to recognize isoform 1 only (NP\_005867.3).

**APEG1 / SPEG Antibody (internal region) - References**

APEG-1, a novel gene preferentially expressed in aortic smooth muscle cells, is down-regulated by vascular injury. Hsieh CM, Yoshizumi M, Endege WO, Kho CJ, Jain MK, Kashiki S, de los Santos R, Lee WS, Perrella MA, Lee ME. J Biol Chem. 1996 Jul 19;271(29):17354-9. PMID: 8663449