

SAMD-1 Rabbit pAb

SAMD-1 Rabbit pAb

Catalog # AP59027

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6SPF0
Predicted	Rat, Dog, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56052
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SAMD-1
Epitope Specificity	31-130/538
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May play a role in atherogenesis by immobilizing LDL in the atherial wall.

Additional Information

Gene ID	90378
Other Names	Sterile alpha motif domain-containing protein 1, SAM domain-containing protein 1, Atherin, SAMD1 (HGNC:17958)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	SAMD1 (HGNC:17958)
Function	Unmethylated CpG islands (CGIs)-binding protein which localizes to H3K4me3-decorated CGIs, where it acts as a transcriptional repressor (PubMed: 33980486). Tethers L3MBTL3 to chromatin and interacts with the KDM1A histone demethylase complex to modulate H3K4me2 and H3K4me3

levels at CGIs (PubMed:[33980486](#)). Plays a role in atherogenesis by binding with LDL on cell surface and promoting LDL oxidation which leads to the formation of foam cell (PubMed:[16159594](#), PubMed:[34006929](#)).

Cellular Location

Nucleus. Chromosome. Secreted. Note=In atherosclerotic lesions, it is found in the extracellular compartment and in foam cells cytoplasm

Tissue Location

Expressed in atherosclerotic lesions, not in normal intima. Expressed in foam cells.

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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