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SAMD-1 Rabbit pAb

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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=1:5000-10000
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	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

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