

SAMD7 Rabbit pAb

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Catalog # AP59098

Product Information

Application	WB
Primary Accession	Q7Z3H4
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49112
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SAMD7
Epitope Specificity	301-400/446
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The sterile alpha motif (SAM) domain is a 70 residue structure found in a large number of proteins involved in diverse processes present throughout the eukaryotes. The SAM domain is known to bind RNA and is arranged in a small five-helix bundle with two large interfaces. SAMD7 (Sterile alpha motif domain-containing protein 7), is a 446 amino acid protein encoded by the SAMD7 gene which maps to human chromosome 3. Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	344658
Other Names	Sterile alpha motif domain-containing protein 7, SAM domain-containing protein 7, SAMD7
Dilution	WB=1:500-2000
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.

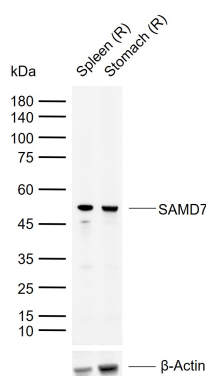
Protein Information

Name	SAMD7
Function	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, essential for establishing rod photoreceptor cell identity and function by silencing nonrod gene expression in developing rod photoreceptor cells. Via its association with the PRC1-like complex, promotes epigenetic repressive marks H3K27me3 and H2AK119ub marks in nonrod genes, silencing their transcription. Represses Crx-controlled photoreceptor-specific gene expression.
Cellular Location	Nucleus. Cytoplasm {ECO:0000250 UniProtKB:Q8C8Y5}. Note=Co-localizes with PHC2 and RNF2 in nuclear polycomb bodies. {ECO:0000250 UniProtKB:Q8C8Y5}
Tissue Location	Expressed in the retina (at protein level) (PubMed:26887858). Expressed in the retinal inner and outer nuclear layers (PubMed:38272031).

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Images



Sample:

Lane 1: Rat Spleen tissue lysates

Lane 2: Rat Stomach tissue lysates

Primary: Anti-SAMD7 (AP59098) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kDa

Observed band size: 52 kDa

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