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SPATA7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12419b

Product Information

Application	WB, E
Primary Accession	Q9P0W8
Other Accession	NP_060888.2, NP_001035518.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22300
Calculated MW	67719
Antigen Region	374-401

Additional Information

Gene ID	55812
Other Names	Spermatogenesis-associated protein 7, HSD-31, Spermatogenesis-associated protein HSD3, SPATA7, HSD3
Target/Specificity	This SPATA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 374-401 amino acids from the C-terminal region of human SPATA7.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SPATA7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPATA7
Synonyms	HSD3

Function	Involved in the maintenance of both rod and cone photoreceptor cells (By similarity). It is required for recruitment and proper localization of RPGRIP1 to the photoreceptor connecting cilium (CC), as well as photoreceptor-specific localization of proximal CC proteins at the distal CC (By similarity). Maintenance of protein localization at the photoreceptor-specific distal CC is essential for normal microtubule stability and to prevent photoreceptor degeneration (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q80VP2}. Note=Localizes to the microtubule network.

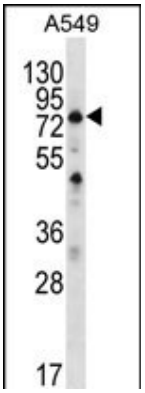
Background

This gene, originally isolated from testis, is also expressed in retina. Mutations in this gene are associated with Leber congenital amaurosis and juvenile retinitis pigmentosa. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

References

Perrault, I., et al. Hum. Mutat. 31 (3), E1241-E1250 (2010) :
Wang, H., et al. Am. J. Hum. Genet. 84(3):380-387(2009)
Zhang, X., et al. J. Mol. Med. 81(6):380-387(2003)
Heilig, R., et al. Nature 421(6923):601-607(2003)

Images



SPATA7 Antibody (C-term) (Cat. #AP12419b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SPATA7 antibody detected the SPATA7 protein (arrow).