

# AKAP4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14462a

## Product Information

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Application	WB, IHC-P, E
Primary Accession	<a href="#">Q5JQC9</a>
Other Accession	<a href="#">NP_003877.2</a> , <a href="#">NP_647450.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35105
Calculated MW	94477
Antigen Region	10-36

## Additional Information

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Gene ID	8852
Other Names	A-kinase anchor protein 4, AKAP-4, A-kinase anchor protein 82 kDa, AKAP 82, hAKAP82, Major sperm fibrous sheath protein, HI, Protein kinase A-anchoring protein 4, PRKA4, AKAP4 ( <a href="#">HGNC:374</a> ), AKAP82
Target/Specificity	This AKAP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-36 amino acids from the N-terminal region of human AKAP4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	AKAP4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	AKAP4 ( <a href="#">HGNC:374</a> )
Synonyms	AKAP82

<b>Function</b>	Major structural component of sperm fibrous sheath (PubMed: <a href="#">9822690</a> ). Plays a role in sperm motility (PubMed: <a href="#">34415320</a> , PubMed: <a href="#">9822690</a> ).
<b>Cellular Location</b>	Cell projection, cilium, flagellum. Note=Localizes to the principle piece of the sperm flagellum.
<b>Tissue Location</b>	Testis specific; only expressed in round spermatids.

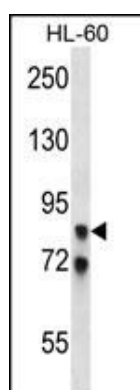
## Background

The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is localized to the sperm flagellum and may be involved in the regulation of sperm motility. Alternative splicing of this gene results in two transcript variants encoding different isoforms.

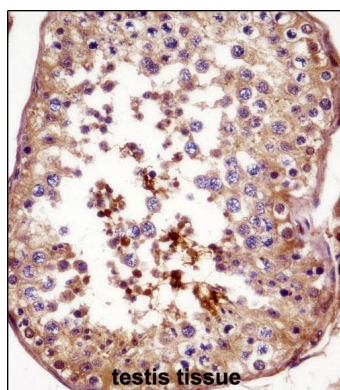
## References

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Ross, M.T., et al. Nature 434(7031):325-337(2005)  
Brown, P.R., et al. Biol. Reprod. 68(6):2241-2248(2003)  
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## Images



AKAP4 Antibody (N-term) (Cat. #AP14462a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the AKAP4 antibody detected the AKAP4 protein (arrow).



AKAP4 Antibody (N-term) (AP14462a) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of AKAP4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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