

AKAP4 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14462a

Specification

AKAP4 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O5JQC9
Other Accession	NP_003877.2 , NP_647450.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	10-36

AKAP4 Antibody (N-term) - Additional Information

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 ([HGNC:374](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=374)), 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~~1:10~50

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.

AKAP4 Antibody (N-term) - Protein Information

Name AKAP4 ([HGNC:374](#))

Synonyms AKAP82

Function Major structural component of sperm fibrous sheath (PubMed:[9822690](#)). Plays a role in sperm motility (PubMed:[34415320](#), PubMed:[9822690](#)).

Cellular Location

Cell projection, cilium, flagellum. Note=Localizes to the principle piece of the sperm flagellum.

Tissue Location

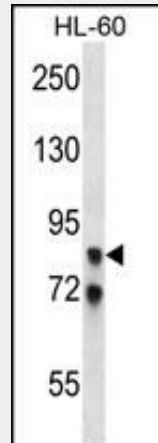
Testis specific; only expressed in round spermatids.

AKAP4 Antibody (N-term) - Protocols

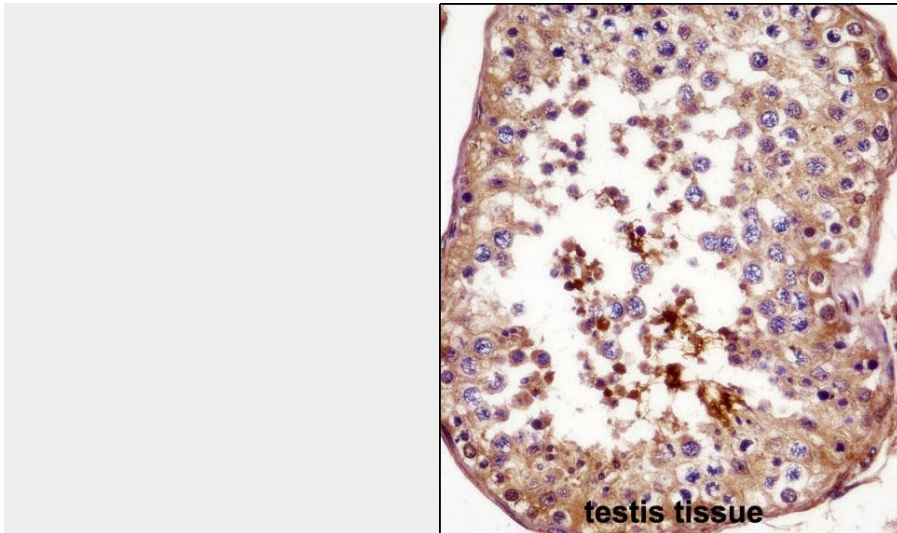
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AKAP4 Antibody (N-term) - 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.

AKAP4 Antibody (N-term) - 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.

AKAP4 Antibody (N-term) - References

- Moretti, E., et al. Asian J. Androl. 9(5):641-649(2007)
- Lefievre, L., et al. Proteomics 7(17):3066-3084(2007)
- Ross, M.T., et al. Nature 434(7031):325-337(2005)
- Brown, P.R., et al. Biol. Reprod. 68(6):2241-2248(2003)
- Ficarro, S., et al. J. Biol. Chem. 278(13):11579-11589(2003)