

# AKAP3 Polyclonal antibody

Catalog Number: 13907-1-AP

18 Publications

## Basic Information

**Catalog Number:**

13907-1-AP

**Size:**

150ul , Concentration: 800 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4885

**GenBank Accession Number:**

BC047535

**GeneID (NCBI):**

10566

**UNIPROT ID:**

O75969

**Full Name:**

A kinase (PRKA) anchor protein 3

**Calculated MW:**

95 kDa

**Observed MW:**

100 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:12000

IHC 1:50-1:500

IF 1:400-1:1600

## Applications

**Tested Applications:**

IF, IHC, WB, ELISA

**Cited Applications:**

CoIP, IF, IHC, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : mouse testis tissue, rat testis tissue

IHC : mouse testis tissue,

IF : mouse testis tissue,

## Background Information

AKAP3 is a member of A-kinase anchoring proteins (AKAPs), a family of functionally related proteins that target protein kinase A to discrete locations within the cell. AKAP3 is reported to participate in protein-protein interactions with the R-subunit of the protein kinase A as well as sperm-associated proteins. AKAP3 is expressed in spermatozoa and localized to the acrosomal region of the sperm head as well as the length of the principal piece. It may function as a regulator of motility, capacitation, and the acrosome reaction.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yan-Wei Sha	30298696	Clin Genet	IF
Yuki Kaneda	35618043	Dev Biol	WB
Shadma Fatima	25820252	Sci Rep	WB, IF, IHC, IP

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

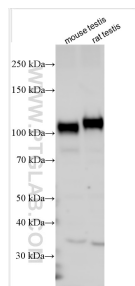
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

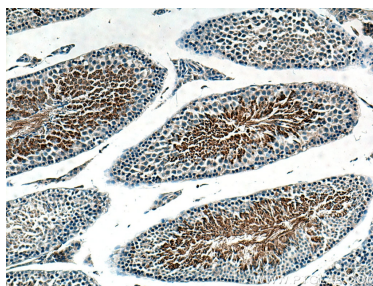
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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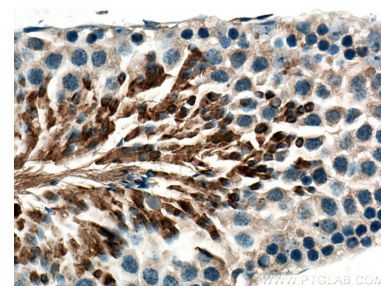
## Selected Validation Data



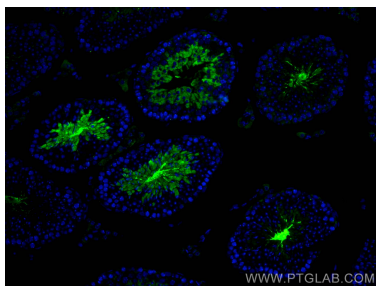
Various lysates were subjected to SDS PAGE followed by western blot with 13907-1-AP (AKAP3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



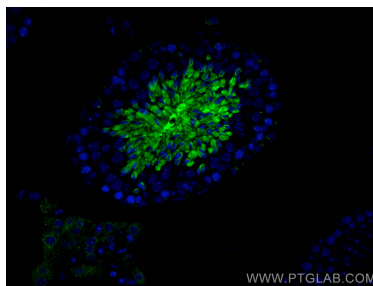
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13907-1-AP (AKAP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13907-1-AP (AKAP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using AKAP3 antibody (13907-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using AKAP3 antibody (13907-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).