

**Goat Anti-AKAP3 / SOB1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1043a****Specification**

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**Goat Anti-AKAP3 / SOB1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O75969</a>
Other Accession	<a href="#">NP_006413</a> , <a href="#">10566</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	94751

**Goat Anti-AKAP3 / SOB1 Antibody - Additional Information****Gene ID** 10566**Other Names**

A-kinase anchor protein 3, AKAP-3, A-kinase anchor protein 110 kDa, AKAP 110, Cancer/testis antigen 82, CT82, Fibrous sheath protein of 95 kDa, FSP95, Fibrousheathin I, Fibrousheathin-1, Protein kinase A-anchoring protein 3, PRKA3, Sperm oocyte-binding protein, AKAP3, AKAP110, SOB1

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-AKAP3 / SOB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-AKAP3 / SOB1 Antibody - Protein Information****Name** AKAP3**Synonyms** AKAP110, SOB1**Function**

Has a role in the maintenance of acrosome structure (PubMed:<a

href="http://www.uniprot.org/citations/35228300" target="\_blank">35228300</a>). May function as a regulator of both spermatozoa motility and head-associated functions such as capacitation and the acrosome reaction.

#### Cellular Location

Cytoplasmic vesicle, secretory vesicle, acrosome. Note=Ribs of the fibrous sheath in the principal piece of the sperm tail. Dorsal margin of the acrosomal segment

#### Tissue Location

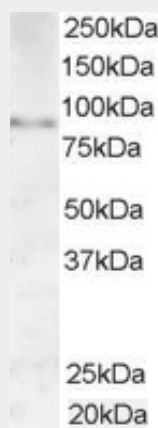
Testis specific; only expressed in spermatids.

### Goat Anti-AKAP3 / SOB1 Antibody - 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](#)

### Goat Anti-AKAP3 / SOB1 Antibody - Images



AF1043a (1 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-AKAP3 / SOB1 Antibody - 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, and is expressed in testis only. The encoded protein contains an RII-binding domain, and is predicted to participate in protein-protein interactions with the R-subunit of the PKA. This protein is localized to the ribs of the fibrous sheath in the principal piece of the sperm tail. It may function as a regulator of both motility- and head-associated functions such as capacitation and the acrosome reaction.

### Goat Anti-AKAP3 / SOB1 Antibody - References

Human spermatozoa contain multiple targets for protein S-nitrosylation: an alternative mechanism of the modulation of sperm function by nitric oxide? Lefièvre L, et al. Proteomics, 2007 Sep. PMID 17683036.

A-kinase anchoring protein 3 messenger RNA expression correlates with poor prognosis in epithelial ovarian cancer. Sharma S, et al. Gynecol Oncol, 2005 Oct. PMID 16005946.

Association of sperm protein 17 with A-kinase anchoring protein 3 in flagella. Lea IA, et al. Reprod Biol Endocrinol, 2004 Jul 16. PMID 15257753.

A-kinase anchoring protein 3 messenger RNA expression in ovarian cancer and its implication on prognosis. Hasegawa K, et al. Int J Cancer, 2004 Jan 1. PMID 14618620.

A-kinase anchoring protein 4 binding proteins in the fibrous sheath of the sperm flagellum. Brown PR, et al. Biol Reprod, 2003 Jun. PMID 12606363.