

## Goat Anti-AKAP3 / SOB1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1043a

### **Specification**

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

Application WB
Primary Accession 075969

Other Accession NP 006413, 10566

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 lgG/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



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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 Cytomety
- Cell Culture

# Goat Anti-AKAP3 / SOB1 Antibody - Images



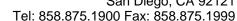
AF1043a (1 μg/ml) staining of Human Testis lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### 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? Lefi vre 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 | Cancer, 2004 | an 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.