

**AKAP4 Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a partial recombinant AKAP4.****Catalog # AT1086a****Specification**

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**AKAP4 Antibody (monoclonal) (M02) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC, E                |
| Primary Accession | <a href="#">O5JQC9</a>    |
| Other Accession   | <a href="#">NM_003886</a> |
| Reactivity        | Human                     |
| Host              | Mouse                     |
| Clonality         | Monoclonal                |
| Isotype           | IgG2a Kappa               |
| Calculated MW     | 94477                     |

**AKAP4 Antibody (monoclonal) (M02) - 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 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=374](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=374)), AKAP82

**Target/Specificity**

AKAP4 (NP\_003877, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

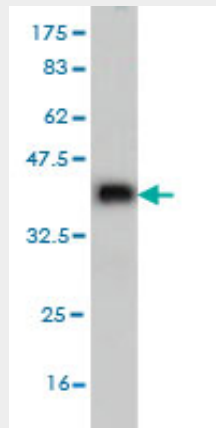
AKAP4 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

**AKAP4 Antibody (monoclonal) (M02) - Protocols**

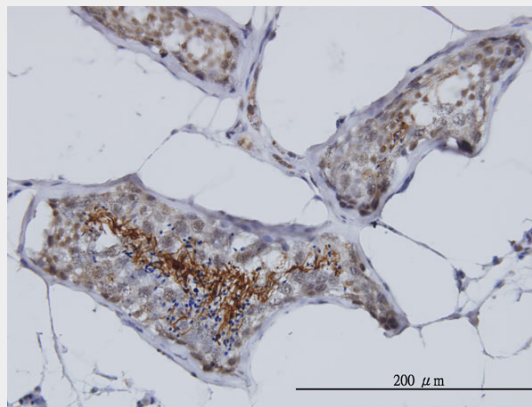
Provided below are standard protocols that you may find useful for product applications.

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

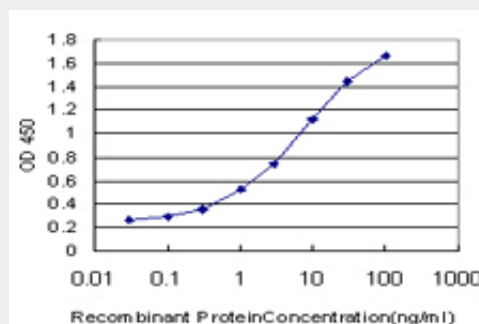
#### AKAP4 Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Immunoperoxidase of monoclonal antibody to AKAP4 on formalin-fixed paraffin-embedded human testis. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged AKAP4 is approximately 0.1ng/ml as a capture

antibody.

#### **AKAP4 Antibody (monoclonal) (M02) - 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 (monoclonal) (M02) - References**

Localization of AKAP4 and tubulin proteins in sperm with reduced motility. Moretti E, et al. Asian J Androl, 2007 Sep. PMID 17712481. 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. The DNA sequence of the human X chromosome. Ross MT, et al. Nature, 2005 Mar 17. PMID 15772651. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. 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.