BOSTER BIOLOGICAL TECHNOLOGY
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Anti-A-kinase anchor protein 4 AKAP4 Antibody

Catalog Number: A07362

About AKAP4

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 (1). AKAP4, also known as hAKAP82, is a major sperm fibrous sheath protein that localizes to the entire length of the flagellum of human sperm (2). It has been suggested that AKAP4 plays multiple roles in sperm motility and regulation of signal transduction pathways (2). AKAP4 has also been postulated to be a potential biomarker for breast cancer (3).

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Overview

Product Name	Anti-A-kinase anchor protein 4 AKAP4 Antibody
Reactive Species	Human
Description	Boster Bio Anti-A-kinase anchor protein 4 AKAP4 Antibody (Catalog # A07362). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	AKAP4 antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	AKAP4 antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q5JQC9

Technical Details

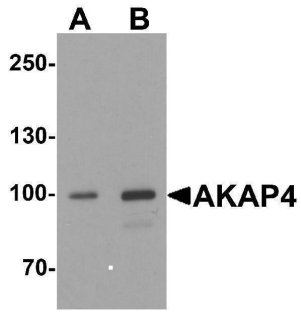
Immunogen	AKAP4 antibody was raised against a 17 amino acid peptide near the amino terminus of human AKAP4. The immunogen is located within the first 50 amino acids of AKAP4.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	AKAP4 antibody is human specific. At least three isoforms are known to exist; this antibody will detect the two longest isoforms.

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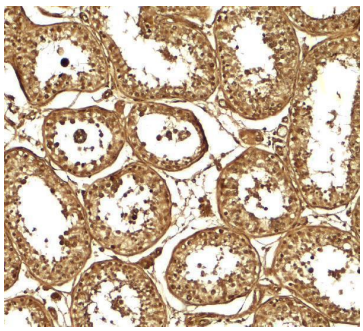
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	AKAP4 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	AKAP4 antibody can be used for detection of AKAP4 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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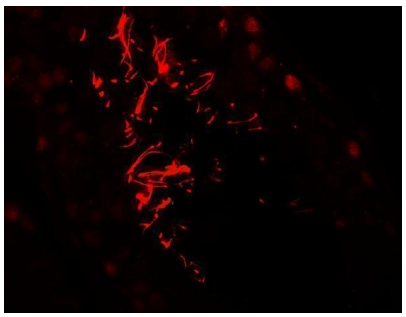
Anti-A-kinase anchor protein 4 AKAP4 Antibody (A07362) Images



Western blot analysis of AKAP4 in human testis tissue lysate with AKAP4 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of AKAP4 in human testis tissue with AKAP4 antibody at 5 ug/ml.



Immunofluorescence of AKAP4 in human testis tissue with AKAP4 antibody at 20 ug/ml.

Anti-A-kinase anchor protein 4 AKAP4 Antibody

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