

KATNAL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56548

Specification

KATNAL1 Polyclonal Antibody - Product Information

Application Primary Accession

Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity

Isotype Purity

affinity purified by Protein A

WB, IHC-P, IHC-F, IF, ICC, E

O9BW62
Rat, Pig, Dog
Rabbit
Polyclonal
55 KDa
Liquid

KLH conjugated synthetic peptide derived

from human KATNAL1

151-250/490

IqG

Buffer

SUBCELLULAR LOCATION

SIMILARITY Important Note 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol. Cytoplasm; cytoskeleton.

Belongs to the AAA ATPase family. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Microtubules are polymers of alpha and beta subunits that form the mitotic spindle and assist in the organization of membranous organelles during interphase. Katanin is a heterodimer complex that severs microtubules in an ATP-dependent manner. The severing of microtubules by the Katanin complex may promote reorganization of cellular microtubule arrays and release of microtubules from the centrosome following nucleation. The Katanin complex is composed of a 60 kDa subunit (Katanin p60 A1) and a 80 kDa accessory protein (Katanin p80 B1). Katanin p60 A1 is responsible for the severing and disassembly of microtubules, while Katanin p80 B1 targets the complex to the centrosome. Katanin p60 A1 and Katanin p80 B1 belong to the AAA ATPase family, which also includes the Katanin p60 A1-like proteins, Katanin p60 AL1 and Katanin p60 AL2.

KATNAL1 Polyclonal Antibody - Additional Information

Gene ID 84056

Other Names

Katanin p60 ATPase-containing subunit A-like 1 {ECO:0000255|HAMAP-Rule:MF_03024}, Katanin p60 subunit A-like 1 {ECO:0000255|HAMAP-Rule:MF_03024}, 5.6.1.1 {ECO:0000255|HAMAP-Rule:MF_03024}, p60 katanin-like 1 {ECO:0000255|HAMAP-Rule:MF_03024}, KATNAL1 {ECO:0000255|HAMAP-Rule:MF_03024}

Dilution



WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

KATNAL1 Polyclonal Antibody - Protein Information

Name KATNAL1 {ECO:0000255|HAMAP-Rule:MF 03024}

Function

Regulates microtubule dynamics in Sertoli cells, a process that is essential for spermiogenesis and male fertility. Severs microtubules in an ATP-dependent manner, promoting rapid reorganization of cellular microtubule arrays (By similarity). Has microtubule- severing activity in vitro (PubMed:26929214).

Cellular Location

Cytoplasm, cytoskeleton {ECO:0000255|HAMAP- Rule:MF 03024,

ECO:0000269|PubMed:22654668}. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, spindle. Note=Colocalizes with microtubules throughout the basal and adluminal compartments of Sertoli cells (By similarity). Localizes within the cytoplasm, partially overlapping with microtubules, in interphase and to the mitotic spindle and spindle poles during mitosis (PubMed:26929214). {ECO:0000250|UniProtKB:Q8K0T4, ECO:0000269|PubMed:26929214}

Tissue Location

Expressed in testis, restricted to Sertoli cells (at protein level).

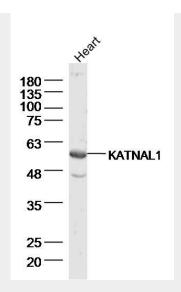
KATNAL1 Polyclonal Antibody - Protocols

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

KATNAL1 Polyclonal Antibody - Images



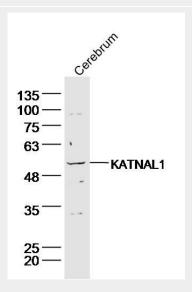


Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-KATNAL1 (bs-17080R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD Observed band size: 55 kD



Sample: Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-KATNAL1 (bs-17080R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD Observed band size: 55 kD