

**KATL1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10229a****Specification**

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**KATL1 Antibody (N-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O9BW62</a>
Other Accession	<a href="#">NP_115492.1</a> , <a href="#">NP_001014402.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	55392
Antigen Region	137-166

**KATL1 Antibody (N-term) - 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}, 3643 {ECO:0000255|HAMAP-Rule:MF\_03024}, p60 katanin-like 1 {ECO:0000255|HAMAP-Rule:MF\_03024}, KATNAL1 {ECO:0000255|HAMAP-Rule:MF\_03024}

**Target/Specificity**

This KATL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-166 amino acids from the N-terminal region of human KATL1.

**Dilution**

FC~~1:10~50  
IHC-P~~1:50~100  
WB~~1:1000  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

KATL1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KATL1 Antibody (N-term) - 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**

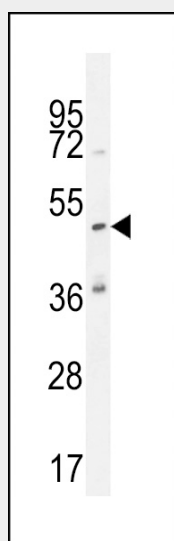
Expressed in testis, restricted to Sertoli cells (at protein level).

**KATL1 Antibody (N-term) - Protocols**

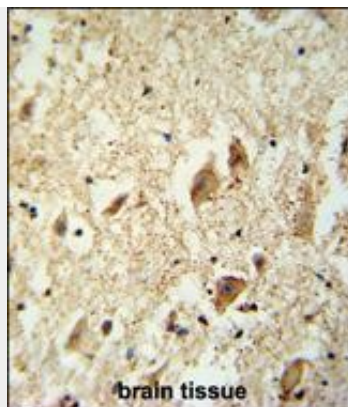
Provided below are standard protocols that you may find useful for product applications.

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

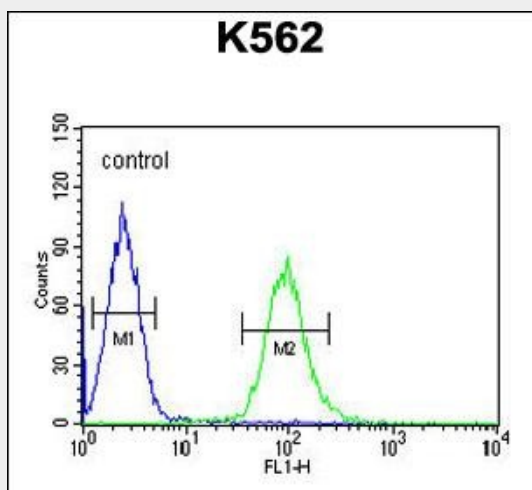
**KATL1 Antibody (N-term) - Images**



KATL1 Antibody (N-term) (Cat. #AP10229a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the KATL1 antibody detected the KATL1 protein (arrow).



KATL1 antibody (N-term) (Cat. #AP10229a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KATL1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



KATL1 Antibody (N-term) (Cat. #AP10229a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **KATL1 Antibody (N-term) - References**

- Dunham, A., et al. Nature 428(6982):522-528(2004)
- Millar, J.K., et al. Biochem. Biophys. Res. Commun. 311(4):1019-1025(2003)
- Robertson, N.G., et al. Genomics 23(1):42-50(1994)