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KATL1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10229a

Specification

KATL1 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9BW62
Other Accession	NP_115492.1, NP_001014402.1
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
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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}

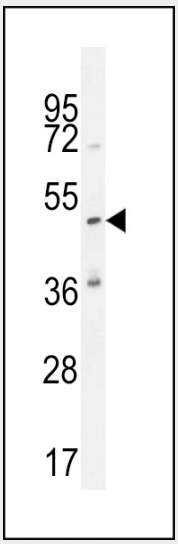
Tissue Location
Expressed in testis, restricted to Sertoli cells (at protein level).

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 Cytomety
- 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).

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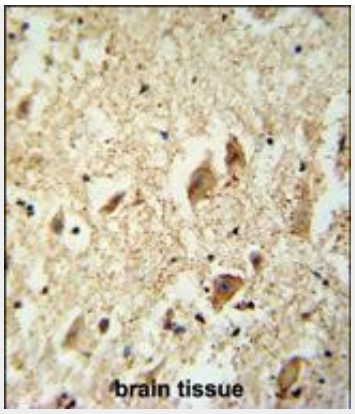
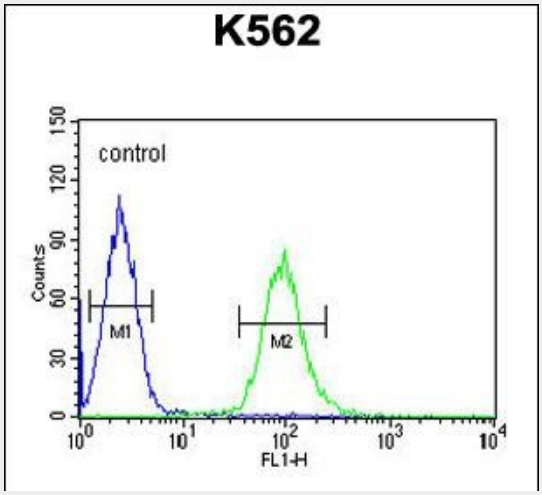


KATL1 antibody (N-term) (Cat. #AP10229a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KATL1 antibody (N-term) for immunohistochemistry. Clinical 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)