10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAMSAP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11271a

Specification

CAMSAP1 Antibody (N-term) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q5T5Y3
Other Accession	NP_056262.3
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**177972**
Antigen Region	**34-62**

CAMSAP1 Antibody (N-term) - Additional Information

Gene ID 157922

Other Names
Calmodulin-regulated spectrin-associated protein 1, CAMSAP1

Target/Specificity
This CAMSAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-62 amino acids from the N-terminal region of human CAMSAP1.

Dilution
FC~~1:10~50
IHC-P~~1:10~50
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
CAMSAP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CAMSAP1 Antibody (N-term) - Protein Information

Name CAMSAP1

Function Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:19508979, PubMed:21834987, PubMed:24117850, PubMed:24486153, PubMed:24706919). Specifically recognizes growing microtubule minus-ends and stabilizes microtubules (PubMed:24486153, PubMed:24706919). Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization (PubMed:24486153, PubMed:24706919). In contrast to CAMSAP2 and CAMSAP3, tracks along the growing tips of minus-end microtubules without significantly affecting the polymerization rate: binds at the very tip of the microtubules minus-end and acts as a minus-end tracking protein (-TIP) that dissociates from microtubules after allowing tubulin incorporation (PubMed:24486153, PubMed:24706919). Through interaction with spectrin may regulate neurite outgrowth (PubMed:24117850).

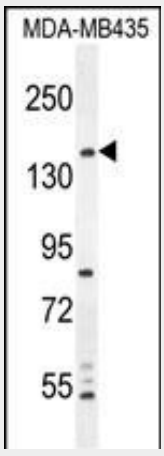
Cellular Location
Cytoplasm, cytoskeleton. Note=Associates with the minus-end of microtubules (PubMed:24486153, PubMed:24706919). In contrast to CAMSAP2 and CAMSAP3, does not form stretches of decorated microtubule minus- ends (PubMed:24486153, PubMed:24706919).

CAMSAP1 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

CAMSAP1 Antibody (N-term) - Images



CAMSAP1 Antibody (N-term) (Cat. #AP11271a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the CAMSAP1 antibody detected the CAMSAP1 protein (arrow).

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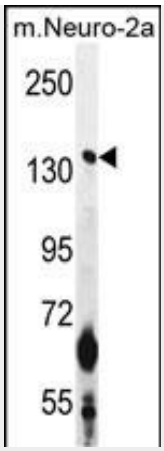
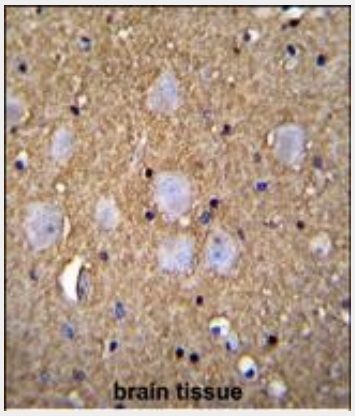
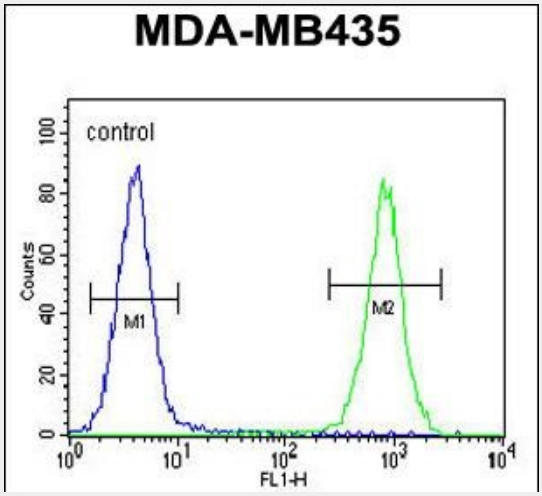


CAMSAP1 Antibody (N-term) (Cat. #AP11271a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the CAMSAP1 antibody detected the CAMSAP1 protein (arrow).



CAMSAP1 Antibody (N-term) (Cat. #AP11271a)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 CAMSAP1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CAMSAP1 Antibody (N-term) (Cat. #AP11271a) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.