

**CLSTN1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18952a**

**Specification**

**CLSTN1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O94985</a>
Other Accession	<a href="#">Q6Q0N0</a> , <a href="#">Q9EPL2</a> , <a href="#">NP_001009566.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	109793
Antigen Region	15-42

**CLSTN1 Antibody (N-term) - Additional Information**

**Gene ID** 22883

**Other Names**

Calsyntenin-1, Alcadin-alpha, Alc-alpha, Alzheimer-related cadherin-like protein, Non-classical cadherin XB31alpha, Soluble Alc-alpha, SAlc-alpha, CTF1-alpha, C-terminal fragment 1-alpha, CLSTN1, CS1, KIAA0911

**Target/Specificity**

This CLSTN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-42 amino acids from the N-terminal region of human CLSTN1.

**Dilution**

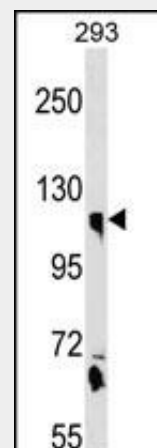
WB~~1:1000

**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



CLSTN1 Antibody (N-term) (Cat. #AP18952a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the CLSTN1 antibody detected the CLSTN1 protein (arrow).

**CLSTN1 Antibody (N-term) - Background**

Induces KLC1 association with vesicles and functions as a cargo in axonal anterograde transport. Complex formation with APBA2 and APP, stabilizes APP metabolism and enhances APBA2-mediated suppression of beta-APP40 secretion, due to the retardation of intracellular APP maturation. In complex with APBA2 and C99, a C-terminal APP fragment, abolishes C99 interaction with PSEN1 and thus APP C99 cleavage by gamma-secretase, most probably through stabilization of the direct interaction between APBA2 and APP. The intracellular fragment AlclCD suppresses APBB1-dependent transactivation stimulated by APP C-terminal intracellular fragment (AICD), most probably by competing with AICD for APBB1-binding. May modulate calcium-mediated postsynaptic signals (By similarity).

**CLSTN1 Antibody (N-term) - References**

Konecna, A., et al. Mol. Biol. Cell

in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

CLSTN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### **CLSTN1 Antibody (N-term) - Protein Information**

**Name** CLSTN1

**Synonyms** CS1, KIAA0911

### **Function**

Induces KLC1 association with vesicles and functions as a cargo in axonal anterograde transport. Complex formation with APBA2 and APP, stabilizes APP metabolism and enhances APBA2-mediated suppression of beta-APP40 secretion, due to the retardation of intracellular APP maturation. In complex with APBA2 and C99, a C-terminal APP fragment, abolishes C99 interaction with PSEN1 and thus APP C99 cleavage by gamma-secretase, most probably through stabilization of the direct interaction between APBA2 and APP. The intracellular fragment AICD suppresses APBB1-dependent transactivation stimulated by APP C-terminal intracellular fragment (AICD), most probably by competing with AICD for APBB1-binding. May modulate calcium-mediated postsynaptic signals (By similarity).

### **Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane. Cell projection, neuron projection. Cell junction, synapse, postsynaptic cell membrane; Single-pass type I membrane protein. Nucleus. Note=Neurite tips. Localized in the postsynaptic membrane of both excitatory and inhibitory synapses (By similarity). The AICD fragment is translocated to the nucleus upon interaction with APBB1.

### **Tissue Location**

Expressed in the brain and, a lower level, in the heart, skeletal muscle, kidney and placenta. Accumulates in dystrophic neurites around the amyloid core of Alzheimer disease senile plaques (at protein level).

17(8):3651-3663(2006)

Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)

Araki, Y., et al. J. Biol. Chem.

279(23):24343-24354(2004)

Schmitt-Ulms, G., et al. Nat. Biotechnol. 22(6):724-731(2004)

Araki, Y., et al. J. Biol. Chem.

278(49):49448-49458(2003)

### **CLSTN1 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](#)