

KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1350

Product Information

Application	WB, FC
Primary Accession	O94985
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3725
Calculated MW	109793
Gene Name	CLSTN1
Aliases	CLSTN1; Calsyntenin 1; KIAA0911; CDHR12; CSTN1; Alzheimer-Related Cadherin-Like Protein; Cadherin-Related Family Member 12; Non-Classical Cadherin XB31alpha; Alcadin-Alpha; Calsyntenin-1; ALC-ALPHA; XB31alpha; Alcalpha1; Alcalpha2; Alc-Alpha; PIK3CD; CST-1; CS1
Immunogen	A synthesized peptide derived from human CLSTN1

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 (HGNC:17447)

Protein Information

Name	CLSTN1 (HGNC:17447)
Function	Postsynaptic adhesion molecule that binds to presynaptic neuroligins to mediate both excitatory and inhibitory synapse formation (By similarity). Promotes synapse development by acting as a cell adhesion molecule at the postsynaptic membrane, which associates with neuroligin-1 at the presynaptic membrane (By similarity). Also functions as a cargo in axonal anterograde transport by acting as a molecular adapter that promotes KLC1 association with vesicles (PubMed: 21385839). 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 (PubMed: 12972431).
Cellular Location	Postsynaptic cell membrane {ECO:0000250 UniProtKB:Q9EPL2}; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I

membrane protein. Cell projection, neuron projection. Note=Localized in the postsynaptic membrane of both excitatory and inhibitory synapses {ECO:0000250|UniProtKB:Q9EPL2}

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.