

KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1350**Specification****KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	O94985
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 110 kDa , observed, 150 kDa kDa
Gene Name	CLSTN1
Aliases	CLSTN1; Calsyntenin 1; KIAA0911; CDHR12; CSTN1; Alzheimer-Related Cadherin-Like Protein; Cadherin-Related Family Member 12; Non-Classical Cadherin XB31alpha; Alcadein-Alpha; Calsyntenin-1; ALC-ALPHA; XB31alpha; Alcalpha1; Alcalpha2; Alc-Alpha; PIK3CD; CST-1; CS1 A synthesized peptide derived from human CLSTN1
Immunogen	

KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody - Additional InformationGene ID **22883****Other Names**

Calsyntenin-1, Alcadein-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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=17447 target="_blank">HGNC:17447)

KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody - 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-alpha 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

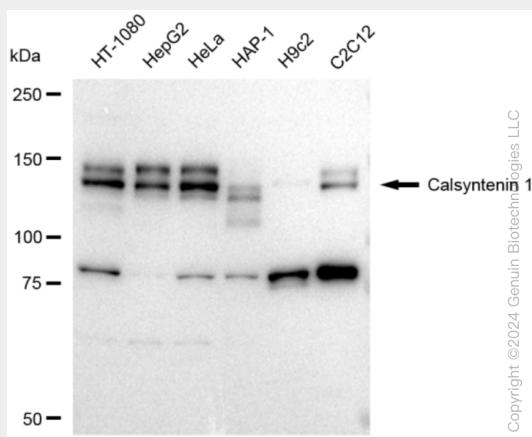
Expressed in the brain and, a lower level, in the heart, skeletal muscle, kidney and placenta. Accumulates in dystrophic neurites around the amyloid core of Alzheimer disease senile plaques (at protein level).

KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody - Protocols

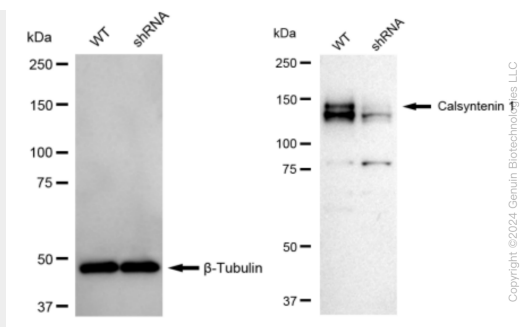
Provided below are standard protocols that you may find useful for product applications.

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

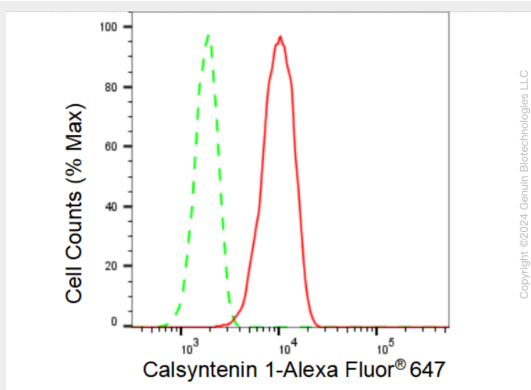
KD-Validated Anti-Calsyntenin 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Calsyntenin 1 antibody (Cat#AGI1350). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Calsyntenin 1 antibody (Cat#AGI1350, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Calsyntenin 1 antibody (Cat#AGI1350). Calsyntenin 1 expression in wild type (WT) and Calsyntenin 1 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Calsyntenin 1 antibody (Cat#AGI1350, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Calsyntenin 1 expression in HT-1080 cells using Calsyntenin 1 antibody (Cat#AGI1350, 1:2,000). Green, isotype control; red, Calsyntenin 1.