

Product Name: KD-Validated Calsyntenin 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01380

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 109.8kDa

Antigen Information

Gene Name	CLSTN1
Alternative Names	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
Gene ID	22883.0
SwissProt ID	O94985
Immunogen	A synthesized peptide derived from human CLSTN1

Background

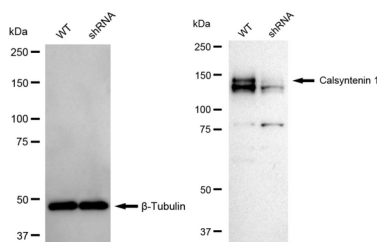
This gene is a member of the calsyntenin family, a subset of the cadherin superfamily. The encoded transmembrane protein,

also known as alcadin-alpha, is thought to bind to kinesin-1 motors to mediate the axonal anterograde transport of certain types of vesicle. Amyloid precursor protein (APP) is trafficked via these vesicles and so this protein is being investigated to see how it might contribute to the mechanisms underlying Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

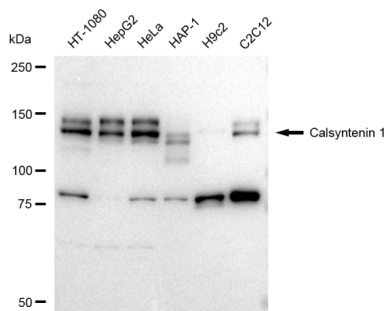
Research Area

Neuroscience

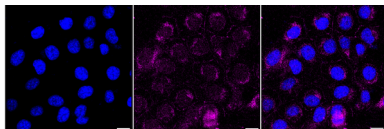
Image Data



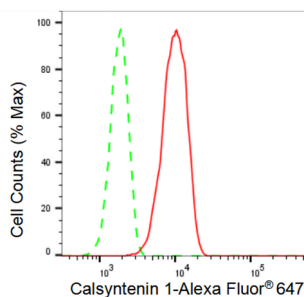
Western blotting analysis using Calsyntenin 1 antibody (KVA01380). Calsyntenin 1 expression in wild type (WT) and Calsyntenin 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Calsyntenin 1 antibody (KVA01380, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Calsyntenin 1 antibody (KVA01380). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Calsyntenin 1 antibody (KVA01380, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Calsyntenin 1 antibody (KVA01380, 1:1,000). Nuclei were stained blue with DAPI; Calsyntenin 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Calsyntenin 1 expression in HT-1080 cells using Calsyntenin 1 antibody (KVA01380, 1:2,000). Green, isotype control; red, Calsyntenin 1.