

Rabbit anti-Human, Mouse CLSTN1 Polyclonal Antibody | anti-CLSTN1 antibody

CLSTN1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327394	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

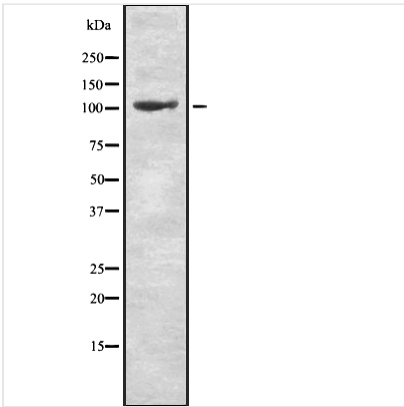
PRODUCT SYNONYMS

CLSTN1; Polyclonal Antibody; CLSTN1 Antibody; Alc alpha; Alc-alpha; Alcadein alpha 1; Alcadein alpha; Alcadein-alpha; alcalpha1; alcalpha2; Alzheimer related cadherin like protein; Alzheimer-related cadherin-like protein; C-terminal fragment 1-alpha; Cadherin related family member 12; Calsyntenin 1; Calsyntenin1; CDHR12; CLSTN 1; Clstn1; CS1; CSTN1; CSTN1_HUMAN; CTF1-alpha; FLJ32258; KIAA0911; Non classical cadherin XB31alpha; Non classical cadherin XB31alpha1; Non-classical cadherin XB31alpha; PIK3CD; SAlc-alpha; XB31alpha; anti-CLSTN1 antibody

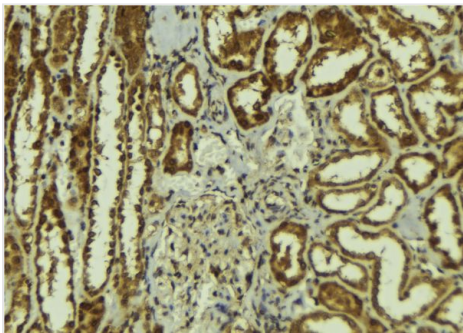
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CLSTN1 antibody detects endogenous levels of total CLSTN1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	981
Applicable Applications for anti-CLSTN1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CLSTN1
Subcellular Location	Endoplasmic Reticulum Membrane. Golgi Apparatus Membrane. Cell Projection. Cell Junction > Synapse > Postsynaptic Cell Membrane. Nucleus. Neurite Tips. Localized in the postsynaptic membrane of both excitatory and inhibitory synapses (By similarity). The AlciCD fragment is translocated to the nucleus upon interaction with APBB1.
Tissue Specificity	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).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of CLSTN1 using LOVO whole cell lysates



IHC (Immunohistochemistry)
AAA327394 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CLSTN1 antibody	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 AlciCD 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). Subunit Structure: Directly interacts with APBA2. Forms a tripartite complex with APBA2 and APP. The CTF1 chain interacts with PSEN1. The intracellular fragment AlciCD interacts with APBB1; this interaction stabilizes AlciCD metabolism. Interacts with KLC1 and APBB1 (By similarity). Post-translational Modifications: Proteolytically processed under normal cellular conditions. A primary zeta-cleavage generates a large extracellular (soluble) N-terminal domain (sAlc) and a short C-terminal transmembrane fragment (CTF1). A secondary cleavage catalyzed by presenilin gamma-secretase within the transmembrane domain releases the beta-Alc-alpha chain in the extracellular milieu and produces an intracellular fragment (AlciCD). This processing is strongly suppressed in the tripartite complex formed with APBA2 and APP, which seems to prevent the association with PSEN1. Similarity: The cytoplasmic domain is involved in interaction with APBA2, as well as the binding of synaptic Ca2+.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	57242757
NCBI GeneID	22883
NCBI Accession #	NP_001009566.1
NCBI GenBank Nucleotide #	NM_001009566.2
UniProt Accession #	O94985; Q5SR52; Q5UE58; Q71MN0; Q8N4K9; A8K183
Molecular Weight	Observed: 110 kDa Predicted: 110 kDa
NCBI Official Full Name	calsyntenin-1 isoform 1
NCBI Official Synonym Full Names	calsyntenin 1
NCBI Official Symbol	CLSTN1
NCBI Official Synonym Symbols	CST-1; CSTN1; CDHR12; PIK3CD; ALC-ALPHA; XB31alpha; alcalpha1; alcalpha2
NCBI Protein Information	calsyntenin-1

UniProt Protein Name	Calsyntenin-1
UniProt Gene Name	CLSTN1
UniProt Synonym Gene Names	CS1; KIAA0911; Alc-alpha; SAlc-alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/clstn1-antibody-immunohistochemistry-western-blot-elisa/327394>