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CLSTN3 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12745

Product Information

Application	WB
Primary Accession	Q9BQT9
Other Accession	NM_014718, NP_055533
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Chicken, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106098

Additional Information

Gene ID	9746
Alias Symbol	CSTN3, KIAA0726, MGC131797, MGC138488, alcbeta, CDHR14
Other Names	Calsyntenin-3, Alcadein-beta, Alc-beta, CLSTN3, CS3, KIAA0726
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-CLSTN3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	CLSTN3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CLSTN3 {ECO:0000303|PubMed:33101212, ECO:0000312|HGNC:HGNC:18371}
Function	Postsynaptic adhesion molecule that binds to presynaptic neurexins to mediate both excitatory and inhibitory synapse formation (PubMed:25352602). Promotes synapse development by acting as a cell adhesion molecule at the postsynaptic membrane, which associates with both neurexin-alpha and neurexin-beta proteins at the presynaptic membrane (PubMed:25352602). Regulates the balance between excitatory and inhibitory synapses by inhibiting formation of excitatory parallel- fiber synapses and promoting formation of inhibitory synapses in the same neuron (By similarity). May also be involved in ascorbate (vitamin C) uptake via its interaction with SLC23A2/SVCT2 (PubMed:34673103). 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 (Probable) (PubMed:12972431).

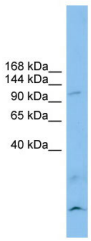
Cellular Location

Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q99JH7}; Single-pass type I membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q99JH7}; Single-pass type I membrane protein. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q99JH7}; Single-pass type I membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:Q99JH7}. Note=Most prominent in the postsynaptic specializations of asymmetric (type I) synapses with both axodendritic and axospinous localization {ECO:0000250|UniProtKB:Q99JH7}

Tissue Location

According to PubMed:12498782, expressed predominantly in the brain and in kidney (PubMed:12498782). Low levels in heart, skeletal muscle, liver, placenta, pancreas and lung (PubMed:12498782). According to PubMed:12972431, predominant expression in brain, and only marginal in kidney (PubMed:12972431). In brain, present throughout all cortical layers, highest levels in GABAergic neurons (based on morphology and distribution pattern) (PubMed:12972431).

Images



WB Suggested Anti-CLSTN3 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: RPMI 8226 cell lysate

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