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anti-CBLN1 antibody (C-Term)



Image



Overview	
Quantity:	100 μL
Target:	CBLN1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CBLN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)
Product Details	
Immunogen:	A synthesized peptide derived from human CBLN1, corresponding to a region within C-terminal
	amino acids.
Isotype:	IgG
Specificity:	CBLN1 Antibody detects endogenous levels of total CBLN1.
Predicted Reactivity:	Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling
	Resin (Thermo Fisher Scientific).
Target Details	
Target:	CBLN1

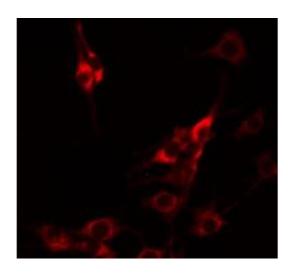
Target Details

Alternative Name:	CBLN1 (CBLN1 Products)
Background:	Description: Required for synapse integrity and synaptic plasticity. During cerebellar synapse
	formation, essential for the matching and maintenance of pre- and post-synaptic elements at
	parallel fiber-Purkinje cell synapses, the establishment of the proper pattern of climbing fiber-
	Purkinje cell innervation, and induction of long-term depression at parallel fiber-Purkinje cell
	synapses. Plays a role as a synaptic organizer that acts bidirectionally on both pre- and post-
	synaptic components. On the one hand induces accumulation of synaptic vesicles in the pre-
	synaptic part by binding with NRXN1 and in other hand induces clustering of GRID2 and its
	associated proteins at the post-synaptic site through association of GRID2. NRXN1-CBLN1-
	GRID2 complex directly induces parallel fiber protrusions that encapsulate spines of Purkinje
	cells leading to accumulation of GRID2 and synaptic vesicles. Required for CBLN3 export from
	the endoplasmic reticulum and secretion (By similarity). NRXN1-CBLN1-GRID2 complex
	mediates the D-Serine-dependent long term depression signals and AMPA receptor
	endocytosis (PubMed:27418511).
	Gene: CBLN1
Molecular Weight:	25 kDa
Gene ID:	869
UniProt:	P23435
Application Details	
Application Notes:	WB 1:500-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Immunofluorescence (fixed cells)

Image 1. ABIN6274994 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod