

CBLN4 Rabbit pAb

Catalog # AP96330

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CBLN4
Epitope Specificity	101-201/201
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C1q domain.
SUBUNIT	Homohexamer; disulfide-linked homotrimers. The trimers are assembled via the globular C1q domains. The trimers associate via N-terminal cysteine residues to form disulfide-linked hexamers. May interact with CBLN1, CBLN2 and CBLN3
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cerebellin (CER), which was originally isolated from rat cerebellum, is a hexadecapeptide derived from a larger precursor called Cerebellin 1, also designated precerebellin 1 or Cbln1. Four propeptides, Cerebellin 1, Cerebellin 2 (Cbln2), Cerebellin 3 (Cbln3) and Cerebellin 4 (Cbln4), comprise the precerebellin subfamily within the C1q protein family. Cerebellin family members act as transneuronal regulators of synapse development and synaptic plasticity in various brain regions. Cerebellin and its metabolite, des-Ser(1)Cer, are also expressed in several extra-cerebellar tissues, including adrenal gland. Cerebellin 1, 2 and 3 assemble into homomeric and heteromeric complexes, thereby influencing each other's degradation and secretion. Cerebellin 3 is not able to form homomeric complexes, and can only be secreted upon forming a heteromeric complex with Cerebellin 1. Decreased concentrations of Cerebellin have been found in the brain of patients with olivopontocerebellar atrophy (OPCA) and Shy-Drager syndrome, suggesting a role for Cerebellin in the pathology of these diseases.

Additional Information

Gene ID	140689
Other Names	CBLNL1; cerebellin 4 precursor; cerebellin precursor-like 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	CBLN4 Rabbit pAb
Function	Cerebellin is a sixteen amino acid peptide found mainly in the adrenal medulla, where it has been shown to have a neuromodulatory function. Cerebellin is derived from precerebellin, a protein with sequence similarity to the noncollagen domain of complement component C1qB. CBLN4 is a glycoprotein which shares sequence similarity with precerebellin. CBLN4 may be involved in synaptic functions in the CNS. It can enable ER export and secretion of CBLN3.

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