

Recombinant Human CLSTN1 protein ab182805

描述	
产品名称	重组人CLSTN1蛋白
纯度	> 90 % SDS-PAGE. ab182805 is expressed in E.coli as inclusion bodies. The final product was refolded and chromatographically purified.
表达系统	Escherichia coli
Accession	<u>O94985</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	MASMTGGQQMGRGHHHHHGNLYFQGGEFARVNHKHPWLEPT YHGIVTEN DNTVLLDPPLIALDKDAPLRFASFVTVTKEGEICGFKIHG QNVPFDAV VVDKSTGEGVIRSKEKLDCELQKDYSFTIQAYDCGKGPDGTN VKKSHKAT VHIQVNDVNEYAPVFKEKSYKATVIEGKQYDSILRVEAVDAD CSPQFSQI CSYEIITPDVPFTVDKDG YIKNTEKLN YGKEHQYKLTVTAYD CGKKRATE DVLVKISIKPTCTPGWQGWNNRIEYEPGTGALAVFPNIHLET CDEPVASV QATVELETSHIGKCDRDTYSEKSLHRLCGAAAGTAELLPSP SGSLNWTM GLPTDNGHSDQVFEFNGTQAVRIPDGVVSVSPKEPFTISVW MRHGPFGR KKETILCSSDKTDMNRHHYSLYVHGRLIFLFRQDPSEEKKY RPAEFHWK LNQVCDEEWHHYVLNVEFPSVTLYVDGTSHEPFSVTEDYPLH PSKIETQL VVGACWQEFSGVENDNETEPVTVASAGGDLHMTQFFRGNLAG LTLRSGKL ADKKVIDCLYTCKEGLDLQVLEDSEGRGVQIQAHPSQLVLTLE GEDLGELD KAMQHISYLNRSQFPTPGIRRLKITSTIKCFNEATCISVPPV

DGYVMVLQ
PEEPKISLSGVHHFARAASEFESSEGVFLFPELRIISTITRE
VEPEGDGA
EDPTVQESLVSEEEIVHDLDTCEVTVEGEELNHEQESLEVDMA
RLQQKGIE
VSSSELGMTFTGVDTMASYEEVLHLLRYRNWHARSLLDKFK
LICSELNG
RYSISNEFKVEVNIHTANPMEHANHMAAQPFVHPEHRSFVD
LSGHNLAN PHPFAVPST

预测分子量	96 kDa including tags
氨基酸	29 to 859
标签	His-T7 tag N-Terminus
额外的序列信息	The extracellular domain of CLSTN1 constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. NP_055759.

技术指标

Our **Abpromise guarantee** covers the use of **ab182805** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
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制备和贮存

稳定性和存储	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 0.32% Tris HCl Buffer also contains NaCl, KCl, EDTA, arginine, DTT and Glycerol.
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常规信息

功能	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 AICD 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.
组织特异性	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).
序列相似性	Contains 2 cadherin domains.
结构域	The cytoplasmic domain is involved in interaction with APBA2, as well as the binding of synaptic

Ca(2+).

翻译后修饰

Proteolytically processed under normal cellular conditions. A primary zeta-cleavage generates a large extracellular (soluble) N-terminal domain (sA β) and a short C-terminal transmembrane fragment (CTF1). A secondary cleavage catalyzed by presenilin gamma-secretase within the transmembrane domain releases the beta-A β -alpha chain in the extracellular milieu and produces an intracellular fragment (A β ICD). This processing is strongly suppressed in the tripartite complex formed with APBA2 and APP, which seems to prevent the association with PSEN1.

细胞定位

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 A β ICD fragment is translocated to the nucleus upon interaction with APBB1.

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