Datasheet for ABIN1047185

HOMER1 Protein (AA 1-354, full length) (His tag)

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Overview

Quantity:	100 µg
Target:	HOMER1
Protein Characteristics:	AA 1-354, full length
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOMER1 protein is labelled with His tag.
Application:	ELISA

Product Details

Sequence:	MGEQPIFSTR AHVFQIDPNT KKNWVPTSKH AVTVSYFYDS TRNVYRIISL DGSKAIINST ITPNMTFTKT SQKFGQWADS RANTVYGLGF SSEHHLSKFA EKFQEFKEAA RLAKEKSQEK MELTSTPSQE SAGGDLQSPL TPESINGTDD ERTPDVTQNS EPRAEPTQNA LPFSHSSAIS KHWEAELATL KGNNAKLTAA LLESTANVKQ WKQQLAAYQE EAERLHKRVT ELECVSSQAN AVHTHKTELN QTIQELEETL KLKEEEIERL KQEIDNAREL QEQRDSLTQK LQEVEIRNKD LEGQLSDLEQ RLEKSQNEQE AFRNNLKTLL EILDGKIFEL TELRDNLAKL LECS
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

Target Details

Target:	HOMER1
Alternative Name:	Homer protein homolog 1 protein (HOMER1 Products)
Background:	Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. May also couple GRM1 to PI3 kinase through its interaction with AGAP2. Isoform 1 regulates the trafficking and surface expression of GRM5. Isoform 3 acts as a natural dominant negative, in dynamic competition with constitutively expressed isoform 1 to regulate synaptic metabotropic glutamate function. Isoform 3, may be involved in the structural changes that occur at synapses during long-lasting neuronal plasticity and development.
Molecular Weight:	44.4 kD
UniProt:	Q86YM7
Pathways:	Skeletal Muscle Fiber Development

Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to

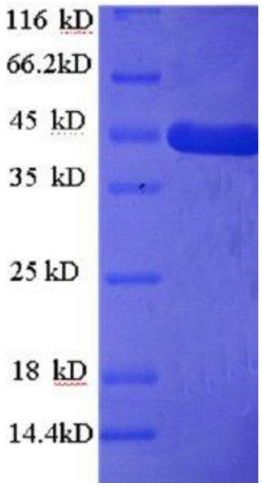
Handling

	one week
Storage:	-20 °C
Storage Comment:	Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

Publications

Product cited in:	Xiao, Tu, Petralia, Yuan, Doan, Breder, Ruggiero, Lanahan, Wenthold, Worley: "Homer regulates the association of group 1 metabotropic glutamate receptors with multivalent complexes of homer-related, synaptic proteins." in: **Neuron**, Vol. 21, Issue 4, pp. 707-16, (1998) (PubMed).

Images



SDS-PAGE

Image 1. Homer Homolog 1 (Drosophila) (HOMER1) (AA 1-354), (full length) protein (His tag)