

Recombinant Full Length Human ADD2 Protein, GST-tagged

Cat. No. ADD2-908HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADD2 full-length ORF (AAH65525.1, 1 a.a. - 726 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	726 amino acids
Description	Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced transcript variants have been described.

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[provided by RefSeq, Jun 2010]

Molecular Mass 107.2 kDa

AA Sequence

MSEETVPEAA SPPPPQGQPY FDRFSEDDPE YMRLRNRAAD LRQDFNLMEQ
 KKRVTMILQS PSFREELEGL IQEQMKKGNN SSNIWALRQI ADFMASTSHA
 VFPTSSMNVS MMTPINDLHT ADSLNLAKGE RLMRCKISSV YRLDLYGWA
 QLSDTYVTLR VSKEQDHFLI SPKGVSCSEV TASSLIKVNI LGEVVEKGSS
 CFPVDTTGFC LHSIAIYAARP DVRCIIHLHT PATAAVSAMK WGLLPVSHNA
 LLVGDMAYYD FNGEMEQEAD RINLQKCLGP TCKILVLRNH GVVALGDTVE
 EAFYKIFHLQ AACEIQVSAL SSAGGVENLI LLEQEKHRPH EVGSVQWAGS
 TFGPMQKSRL GEHEFEALMR MLDNLGYRTG YTYRHPFVQE KTKHKSEVEI
 PATVTAFFVE EDGAPVPALR QHAQKQKQEK TRWLNTPNAY LRVNVADEVQ
 RSMGSPRPKT TWMKADEVK SSSGMPRIE NPNQFVPLYT DPQEVLEMRN
 KIREQNRQDV KSAGPQSQLL ASVIAEKSRP PSTESQLMSK GDEDTKDDSE
 ETVPNPFSQL TDQELEEYKK EVERKKLELD GEKETAPEEP GSPAKSAPAS
 PVQSPAKEAE TKSPLVSPSK SLEEGTKKTE TSKAATTEPE TTQPEGVVVN
 GREEEQTAEE ILSKGLSQMT TSADTDVDT S KDKTESVTSG PMSPEGSPSK
 SPSKKKKKFR TPSFLKSKK KEKVES

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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Gene Name	ADD2 adducin 2 (beta) [Homo sapiens]
Official Symbol	ADD2
Synonyms	ADD2; adducin 2 (beta); beta-adducin; ADDB; erythrocyte adducin subunit beta
Gene ID	119
mRNA Refseq	NM_001185054
Protein Refseq	NP_001171983
MIM	102681
UniProt ID	P35612

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