

Recombinant Full Length Human ADD2 Protein

Cat. No. ADD2-13HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human Adducin 2 with a N terminal proprietary tag;
Predicted MW 105.93 kDa.

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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Form	Liquid
Molecular Mass	105.930kDa inclusive of tags
AA Sequence	MSEETVPEAA SPPPPQGQPY FDRFSEDDPE YMRLRNRAAD LRQDFNLMEQ KKRVTMILQS PSFREELEGL IQEQMKKGNN SSNIWALRQI ADFMASTSHA VFPTSSMNVS MMTPIIDLHT ADSLNLAKGE RLMRCKISSV YRLLDLYGWA QLSDTYVTLR VSKEQDHFLI SPKGVSCSEV TASSLIKVNI LGEVVEKGSS CFPVDTTGFC LHSIYAARP DVRCIIHLHT PATAAVSAMK WGLLPVSHNA LLVGDMAYYD FNGEMEQEAD RINLQKCLGP TCKILVLRNH GVVALGDTVE EAFYKIFHLQ AACEIQVSAL SSAGGVENLI LLEQEKHRPH EVGSVQWAGS TFGPMQKSRL GEHEFEALMR MLDNLGYRTG YTYRHFPVQE KTKHKSEVEI PATVTAFFVE EDGAPVPALR QHAQKQKQEK TRWLNTPNAY LRVNVADEVQ RSMGSPRPKT TWMKADEVK SSSGMPRIE NPNQFVPLYT DPQEVLEMRN KIREQNRQDV KSAGPQSLL ASVIAEKSRS PSTESQLMSK GDEDTKDDSE ETVNPFPSQL TDQEELEYKK EVERKKLELD GEKETAPEEP GSPAKSAPAS PVQSPAKEAE TKSPLVSPSK SLEEGTKKTE TSKAATTEPE TTQPEGVVVN GREEEQTAEE ILSKGLSQMT TSADTDVDT S KDKTESVTSG PMSPEGSPSK SPSKKKKKFR TPSFLKSKK KEKVES
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.
GENE INFORMATION	
Gene Name	ADD2 adducin 2 (beta) [Homo sapiens]

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Official Symbol	ADD2
Synonyms	ADD2; adducin 2 (beta); beta-adducin; ADDB
Gene ID	119
mRNA Refseq	NM_001185054
Protein Refseq	NP_001171983
MIM	102681
UniProt ID	P35612

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