

## Product datasheet for PH309129

### gamma Adducin (ADD3) (NM\_016824) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ADD3 MS Standard C13 and N15-labeled recombinant protein (NP_058432)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209129
Predicted MW:	79.2 kDa
Protein Sequence:	>RC209129 protein sequence Red=Cloning site Green=Tags(s)

MSSDASQGVITTPPPSPMPHKERYFDRINENDPEYIRERNMSPDLRQDFNMMEQRKRVTTQILQSPAFRED  
LECLIQEQMKKGHNPTGLLALQQIADYIMANSFSGFSSPPLSLGMVTPINDLPGADTSSYVKGEKLRCK  
LASLYRLVDLFGWAHLANTYISVRISKEQDHIIIPRGLSFSEATASNLVKVNIIGEVVDQGSTNLKIDH  
TGFSPHAAIYSTRPDVKCVIHIHTLATAAVSSMKCGILPISQESLLLGDVAYDYDQGSLEEQEERIQLQK  
VLGPSCVKVLRNHGVVALGETLEEFHYIFNVQLACEIQVQALAGAGGVDNLHVLDFQKYKAFTYTVAA  
SGGGVNMGSQKWKVGEIEFEGLMRTLNDLGYRTGYAYRHPLIREKPRHKS DVEIPATVAFSFD DTV  
PLSPLKYMAQRQREKTRWLNPNYMKVNVPEESRNGETSPRTKITWMKAEDSSKVS GGTPIKIEDPNQ  
FVPLNTNPNEVLEKRNKIREQNRVLDLKTAGPQSQLLAGIVVDKPPSTMQFEDDDH GPPAPPNPF SHLTEG  
ELEEYKRTIERKQGLEDAEQELLSDDASSVSQIQSQTQSPQNVPEKLEENHELFSKSFISMEVPVMVVN  
GKDDMH DVEDELAKRVSRLSTSTTIENIEITIKSPEKIEEVL SPEGSPSKSPSKKKKFRTPSFLKKNKK  
KEKVEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_058432</a>

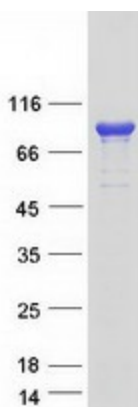


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RefSeq Size:	4454
RefSeq ORF:	2118
Synonyms:	ADDL; CPSQ3
Locus ID:	120
UniProt ID:	<a href="#">Q9UEY8</a> , <a href="#">Q5VU08</a>
Cytogenetics:	10q25.1-q25.2

**Summary:** 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 adducin gamma transcripts encoding different isoforms have been described. The functions of the different isoforms are not known. [provided by RefSeq, Jul 2008]

## Product images:



Coomassie blue staining of purified ADD3 protein (Cat# [TP309129]). The protein was produced from HEK293T cells transfected with ADD3 cDNA clone (Cat# [RC209129]) using MegaTran 2.0 (Cat# [TT210002]).