

## Product datasheet for TP311957

### gamma Adducin (ADD3) (NM\_001121) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human adducin 3 (gamma) (ADD3), transcript variant 3, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC211957 representing NM\_001121

Red=Cloning site Green=Tags(s)

MSSDASQGVITPPPPSPMPHKERYFDRINENDPEYIRERNMSPDLRQDFNMMEQRKRVQILQSPAFRED  
LECLIQEQMKKGHNPTGLLALQQIADYIMANSFSGFSSPPLSLGMVTPINDLPGADTSSYVKGEKLRCK  
LASLYRLVDLFGWAHLANTYISVRISKEQDHIIPRGLSFSEATASNLVKVNIIGEVVDQGSTNLKIDH  
TGFSPHAAIYSTRPDVKCVIHIHTLATAAVSSMKCGILPISQESLLLDVAYDYQGSLEEQEERIQLQK  
VLGSPCKVLVLRNHGVVALGETLEEFHYIFNVQLACEIQVQALAGAGGVDNLHVLDVDFQKYKAFTYTVAA  
SGGGGVNMGSHQKWVGEIEFEGLMRTLNDLGYRTGYAYRHPLIREKPRHKSDVEIPATVTAFSFEDDTV  
PLSPLKYMAQRQREKTRWLNPNNTYMKVNVPEESRNGETSPRTKITWMKAEDSSKVSFGTPIKIEDPNQ  
FVPLNTNPNEVLEKRNKIREQNRYDLKTAGPQSLLAGIVVDKPPSTMQFEDDDHGPPAPPNPFSLHTEG  
ELEEYKRTIERKQQGLEENHELFSKSFISMEVPMVMVNGKDDMHDVEDELAKRVSRLSTSTTIENIEITI  
KSPEKIEEVLSPGSPSKSPSKKKKKFRTPSFLKKNKKKEKVEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 75.5 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001112](#)

**Locus ID:** 120

**UniProt ID:** [Q9UEY8](#)

**RefSeq Size:** 4358

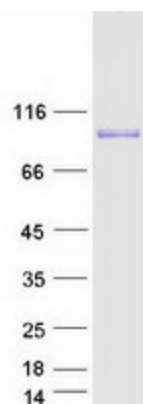
**Cytogenetics:** 10q25.1-q25.2

**RefSeq ORF:** 2022

**Synonyms:** ADDL; CPSQ3

**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# TP311957). The protein was produced from HEK293T cells transfected with ADD3 cDNA clone (Cat# [RC211957]) using MegaTran 2.0 (Cat# [TT210002]).