

Recombinant Mouse Add2 Protein, MYC/DDK-tagged

Cat. No. Add2-540M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of full-length mouse adducin 2 (beta), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description This gene encodes the beta subunit of the adducin family. Adducins, encoded by alpha, beta and gamma genes, are heteromeric proteins that crosslink actin filaments with spectrin at the cytoskeletal membrane. This protein, primarily found in the brain and hematopoietic cells, is regulated by phosphorylation and calmodulin interactions as it promotes spectrin assembly onto actin filaments, bundles actin and caps barbed ends of actin filaments. In mouse, deficiency of this gene can lead to mild hemolytic anemia and impaired synaptic plasticity. Mutations of this gene in mouse serve as a pathophysiological model for hereditary spherocytosis and hereditary elliptocytosis. Alternative splicing results in multiple transcript variants that encode different protein isoforms.

Molecular Mass 62.8 kDa

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

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

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Add2 adducin 2 (beta) [Mus musculus (house mouse)]
Official Symbol	Add2
Synonyms	Add2; adducin 2 (beta); add97; 2900072M03Rik; beta-adducin; erythrocyte adducin subunit beta; snoRNA MBII-396
Gene ID	11519
mRNA Refseq	NM_013458
Protein Refseq	NP_038486
UniProt ID	Q9QYB8

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