

Product datasheet for **TP762608**

CAMK2B (NM_172078) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human calcium/calmodulin-dependent protein kinase II beta (CAMK2B), transcript variant 2, full length, with N-terminal GST and C-terminal His tag, expressed in E.coli, 50ug |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | A DNA sequence encoding the region full length of CAMK2B |
| Tag: | N-GST and C-HIS |
| Predicted MW: | 60.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 50 mM Tris-HCl, pH 8.0, 8 M urea |
| 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 after receiving vials. |
| 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_742075 |
| Locus ID: | 816 |
| UniProt ID: | Q13554 |
| RefSeq Size: | 2066 |
| Cytogenetics: | 7p13 |
| RefSeq ORF: | 1626 |
| Synonyms: | CAM2; CAMK2; CAMKB; CaMKIIbeta; MRD54 |



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Summary:

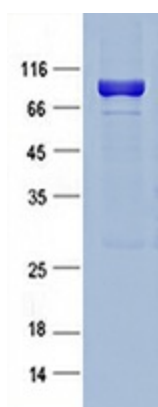
The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway

Product images:

Purified recombinant protein CAMK2B was analyzed by SDS-PAGE gel and Coomassie Blue Staining.