

# Recombinant Human CAMK1 Protein, GST-Tagged

**Cat. No.** CAMK1-0320H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CAMK1 full-length ORF (NP_003647.1, 1 a.a. - 370 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Calcium/calmodulin-dependent protein kinase I is expressed in many tissues and is a component of a calmodulin-dependent protein kinase cascade. Calcium/calmodulin directly activates calcium/calmodulin-dependent protein kinase I by binding to the enzyme and indirectly promotes the phosphorylation and synergistic activation of the enzyme by calcium/calmodulin-dependent protein kinase I kinase. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 66.33 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MLGAVEGPRWKQAEDIRDIYDFRDVLGTGAFSEVILAEDKRTQKLVAIKCIAKEALEG<br>KEGSMENEIAVLHKIKHPNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERD<br>ASRLIFQVLDAVKYLHDLGIVHRDLKPENLLYSLDEDSKIMISDFGLSKMEDPGSVLS<br>TACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAYILLCGYPPFYDENDAKLFEQILKAE<br>YEFDSPYWDDISDSAKDFIRHLMEKDPEKRFTCEQALQHPWIAGDTALDKNIHQSVS<br>EQIKKNFAKSKWKQAFNATAVVRHMRKLQLGTSQEGQGQTASHGELLTPVAGGPA<br>AGCCCRDCCVEPGTELSPTLPHQL                                 |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                       |

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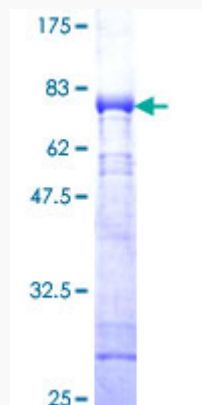
|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                             |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                               |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                        |
| <b>Gene Name</b>        | CAMK1 calcium/calmodulin-dependent protein kinase I [ Homo sapiens ]                                                                                                                   |
| <b>Official Symbol</b>  | CAMK1                                                                                                                                                                                  |
| <b>Synonyms</b>         | CAMK1; calcium/calmodulin-dependent protein kinase I; calcium/calmodulin-dependent protein kinase type 1; CaMKI; caM-KI; caMKI-alpha; caM kinase I alpha; CAMKI; MGC120317; MGC120318; |
| <b>Gene ID</b>          | 8536                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_003656                                                                                                                                                                              |
| <b>Protein Refseq</b>   | NP_003647                                                                                                                                                                              |
| <b>MIM</b>              | 604998                                                                                                                                                                                 |
| <b>UniProt ID</b>       | Q14012                                                                                                                                                                                 |

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**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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