

# Recombinant Human CAMKK1 Protein, GST-Tagged

**Cat. No.** CAMKK1-0339H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CAMKK1 full-length ORF (AAH31647, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 82.94 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MEGGPAVCCQDPRAELVERVAIDVTHLEEADGGPEPTRNGVDPPPRARAASVIPG<br>STSRLLPARPSLSARKLSLQERPAGSYLEAQAGPYATGPASHISPAWRRPTIESHH<br>VAISDAEDCVQLNQYKLQSEIGKGAYGVVRLAYNESEDRHYAMKVLSSKKLLKQYG<br>FPRRPPPRGSQAAQGGPAKQLPLERVYQEIALKKLDHVNNVKLIIEVLDDPAEDNLY<br>LALQNQAQNIQLDSTNIAKPHSLPSEQQDSGSTWAARSVFDLLRKGPVMEVPCDK<br>PFSEEQARLYLRDVILGLEYLHCQKIVHRDIKPSNLLLGGDDGHVKIADFGVSNQFEGN<br>DAQLSSTAGTPAFMAPEAISDSGQSFSKGALDVWATGVTLYCFVYGKCPFIDDFILA<br>LHRKIKNEPVVFPEGPEISEELKDLILKMLDKNPETRIGVPDIKLHPWVTKNGEEPLPS<br>EEEHCSVVEVTEEEVKNSVRLIPSWTTVILVKSMLRKRSFGNPFEPQARREERSMSA |

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|                         |                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | PGNLLV                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | Kinase Assay<br>Enzyme-linked Immunoabsorbent Assay<br>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>        | CAMKK1 calcium/calmodulin-dependent protein kinase kinase 1, alpha [ Homo sapiens ]                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>  | CAMKK1                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | CAMKK1; calcium/calmodulin-dependent protein kinase kinase 1, alpha; calcium/calmodulin-dependent protein kinase kinase 1; CAMKKA; DKFZp761M0423; MGC34095; caMKK 1; caM-KK 1; caM-KK alpha; CAMKK alpha protein; caM-kinase kinase 1; caM-kinase IV kinase; caM-kinase kinase alpha; calcium/calmodulin-dependent protein kinase kinase alpha; |
| <b>Gene ID</b>          | 84254                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | NM_032294                                                                                                                                                                                                                                                                                                                                       |

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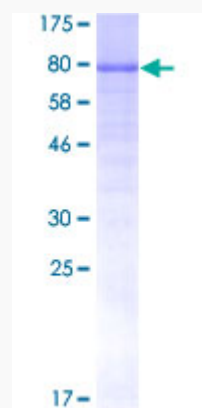
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**Protein Refseq** NP\_115670

**MIM** 611411

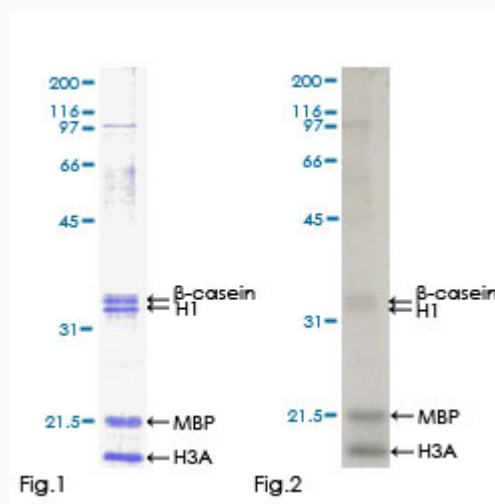
**UniProt ID** Q8N5S9

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

**Application Image**



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Kinase Assay

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