

Datasheet for ABIN7548787

CAMKK1 Protein (AA 1-505) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | CAMKK1 |
| Protein Characteristics: | AA 1-505 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CAMKK1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat CAMKK1 Protein expressed in mammalian cells. |
| Sequence: | <p>MEGGPAVCCQ DPRAELVERV AAIDVTHLEE ADGGPEPTRN GVDPPPRARA ASVIPGSTSR</p> <p>LLPARPSLSA RKLSLQERPA GSYLEAQAGP YATGPASHIS PRAWRRPTIE SHHVAISDAE</p> <p>DCVQLNQYKL QSEIGKGAYG VVRLAYNESE DRHYAMKVLS KKKLLKQYGF PRRPPPRGSQ</p> <p>AAQGGPAKQL LPLERVYQEI AILKKLDHVN VVKLIEVLDD PAEDNLYLVF DLLRKGPVME</p> <p>VPCDKPFSEE QARLYLRDVI LGLEYLHCQK IVHRDIKPSN LLLGDDGHVK IADFGVSNQF</p> <p>EGNDAQLSST AGTAPFMAPE AISDSGQSFS GKALDVWATG VTLYCFVYGK CPFIDDFILA</p> <p>LHRKIKNEPV VFPEEPEISE ELKDLILKML DKNPETRIGV PDIKLHPWVT KNGEEPLPSE</p> <p>EEHCSVVEVT EEEVKNSVRL IPSWTTVILV KSMLRKRSFG NPFEPQARRE ERSMSAPGNL</p> <p>LVKEGFEGEGG KSPELPGVQE DEAAS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |

Product Details

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| Characteristics: | <div><div>Key Benefits:</div><ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis).<p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p><p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p><p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p></div> |
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| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
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| Grade: | custom-made |
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Target Details

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| Target: | CAMKK1 |
| Alternative Name: | CAMKK1 (CAMKK1 Products) |
| Background: | <p>Calcium/calmodulin-dependent protein kinase kinase 1 (CaM-KK 1) (CaM-kinase kinase 1) (CaMKK 1) (EC 2.7.11.17) (CaM-kinase IV kinase) (Calcium/calmodulin-dependent protein kinase kinase alpha) (CaM-KK alpha) (CaM-kinase kinase alpha) (CaMKK alpha),FUNCTION: Calcium/calmodulin-dependent protein kinase that belongs to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK1D, CAMK1G and CAMK4. Involved in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell death. {ECO:0000269 PubMed:12935886}.</p> |
| Molecular Weight: | 55.7 kDa |
| UniProt: | Q8N5S9 |
| Pathways: | AMPK Signaling |

Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
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| Restrictions: | For Research Use only |
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Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |