Calcium and Integrin-Binding Protein 1 (CIB1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Calcium and integrin-binding protein 1 (Cib1), Recombinant Protein
Full Product Name	Recombinant Mouse Calcium and integrin-binding protein 1 (Cib1)
Product Gene Name	Cib1 recombinant protein
Product Synonym Gene Name	Cib1
Sequence	GGSGSRLSKE LLAEYQDLTF LTKQEILLAH RRFCELLPPE QRTVEESLHT RVSFEQILSL PELKANPFKE RICMVFSTSP TRDSLSFEDF LDLLSVFSDT ATPDIKSHYA FRIFDFDDDG TLDREDLSQL VNCLTGEGED TRLSASEMKQ LIDNILEESD IDRDGTINLS EFQHVISRSP DFASSFKIVL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	21,763 Da
Sequence Positions	2-191, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9Z0F4
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cib1 recombinant protein	This protein is a member of the calcium-binding protein family. The specific function of this protein has not yet been determined; however this protein is known to interact with DNA-dependent protein kinase and may play a role in kinase-phosphatase regulation of DNA end joining. This protein also interacts with integrin alpha(IIb)beta(3), which may implicate this protein as a regulatory molecule for alpha(IIb)beta(3).
Other Notes	Small volumes of Cib1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Cib1 purchase	MBS1329002 is a recombinant protein targeting Cib1. Also known as Recombinant Mouse Calcium and integrin-binding protein 1 (Cib1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cib1. It may not necessarily be applicable to this product.

NCBI GI #	602617449
NCBI GeneID	23991
NCBI Accession #	NP_001278204.1

UniProt Primary Accession #	Q9Z0F4
UniProt Secondary Accession #	Q3TN80
UniProt Related Accession #	Q9Z0F4
GenBank Nucleotide #	NM_001291275.1
NCBI Official Full Name	calcium and integrin-binding protein 1 isoform 2
NCBI Official Synonym Full Names	calcium and integrin binding 1 (calmyrin)
NCBI Official Symbol	Cib1
NCBI Official Synonym Symbols	Kip; Cibkip; Prkdcip
UniProt Protein Name	Calcium and integrin-binding protein 1
UniProt Synonym Protein Names	Calmyrin; DNA-PKcs-interacting protein; Kinase-interacting protein; KIP
Protein Family	Calcium and integrin-binding protein
UniProt Gene Name	Cib1
UniProt Synonym Gene Names	Cib; Kip; Prkdcip; CIB; KIP
NCBI Protein Information	calcium and integrin-binding protein 1
UniProt Comments for Cib1	Calcium-binding protein that plays a role in the regulation of numerous cellular processes, such as cell differentiation, cell division, cell proliferation, cell migration, thrombosis, angiogenesis, cardiac hypertrophy and apoptosis. Involved in bone marrow megakaryocyte differentiation by negatively regulating thrombopoietin-mediated signaling pathway. Participates in the endomitotic cell cycle of megakaryocyte, a form of mitosis in which both karyokinesis and cytokinesis are interrupted. Plays a role in integrin signaling by negatively regulating alpha-IIb/beta3 activation in thrombin-stimulated megakaryocytes preventing platelet aggregation. Up-regulates PTK2/FAK1 activity, and is also needed for the recruitment of PTK2/FAK1 to focal adhesions; it thus appears to play an important role in focal adhesion formation. Positively regulates cell migration on fibronectin in a CDC42-dependent manner, the effect being negatively regulated by PAK1. Functions as a negative regulator of stress activated MAP kinase (MAPK) signaling pathways. Down-regulates inositol 1,4,5-trisphosphate receptor-dependent calcium signaling. Involved in sphingosine kinase SPHK1 translocation to the plasma membrane in a N-myristoylation-dependent manner preventing TNF-alpha-induced apoptosis. Regulates serine/threonine-protein kinase PLK3 activity for proper completion of cell division progression. Plays a role in microtubule (MT) dynamics during neuronal development; disrupts the MT depolymerization activity of STMN2 attenuating NGF-induced neurite outgrowth and the MT reorganization at the edge of lamellipodia. Promotes cardiomyocyte hypertrophy via activation of the calcineurin/NFAT signaling pathway. Stimulates calcineurin PPP3R1 activity by mediating its anchoring to the sarcolemma. In ischemia-induced (pathological or adaptive) angiogenesis, stimulates endothelial cell proliferation, migration and microvessel formation by activating the PAK1 and ERK1/ERK2 signaling pathway. Promotes also cancer cell survival and proliferation. May regulate cell cycle and differentiation of spermatogenic germ cells, and/or differentiation of supporting Sertoli cells.
Research Articles on Cib1	**1.** results suggest that interaction of CIB1 with alphaIIb is one of the early events occurring during outside-in signaling. Furthermore, CIB1 recruits FAK to the alphaIIbbeta3 complex at the filopodia where FAK is activated, which in turn activates c-Src, resulting in propagation of outside-in signaling leading to platelet spreading.
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