

# Product datasheet for TP501834

## Cib1 (NM\_011870) Mouse Recombinant Protein

### **Product data:**

#### **Product Type: Recombinant Proteins Description:** Purified recombinant protein of Mouse calcium and integrin binding 1 (calmyrin) (Cib1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug Species: Mouse **Expression Host:** HEK293T **Expression cDNA Clone** >MR201834 protein sequence Red=Cloning site Green=Tags(s) or AA Sequence: MGGSGSRLSKELLAEYQDLTFLTKQEILLAHRRFCELLPPEQRTVEESLHTRVSFEQILSLPELKANPFK ERICMVFSTSPTRDSLSFEDFLDLLSVFSDTATPDIKSHYAFRIFDFDDDGTLDREDLSQLVNCLTGEGE DTRLSASEMKQLIDNILEESDIDRDGTINLSEFQHVISRSPDFASSFKIVL **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** Tag: C-MYC/DDK Predicted MW: 22.2 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method > 80% as determined by SDS-PAGE and Coomassie blue staining Purity: **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C after receiving vials. Storage: Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. NP 036000 RefSeq: Locus ID: 23991 **UniProt ID:** O9Z0F4 **RefSeq Size:** 1055 7 D2 Cytogenetics:



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#### OriGene Technologies, Inc.

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	Cib1 (NM_011870) Mouse Recombinant Protein – TP501834
RefSeq ORF:	573
Synonyms:	Cibkip; Kip; Prkdcip
Summary:	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 is 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 cells unvival and proliferation. May regulate cell cycle and differentiation of spermatogenic germ cells, and/or differentiation of supporting Sertoli cells.[UniProttB/S/Swiss-Prot Function]

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