

Product datasheet

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ARG56945 anti-CIB1 antibody [1D1]

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [1D1] recognizes CIB1

Tested Reactivity Hu
Tested Application WB

Host Mouse

Clonality Monoclonal

Clone 1D1

Isotype IgG2b, kappa

Target Name CIB1
Species Human

Immunogen Recombinant fragment around aa. 1-191 of Human CIB1.

Conjugation Un-conjugated

Alternate Names CIB; Calcium- and integrin-binding protein; Calmyrin; Kinase-interacting protein; KIP; CIBP; KIP1;

PRKDCIP; Calcium and integrin-binding protein 1; SNK-interacting protein 2-28; SIP2-28; DNA-PKcs-

interacting protein

Application Instructions

Application table	Application	Dilution
	WB	1:1000 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 10% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 10519 Human</u>

Swiss-port # Q99828 Human

Gene Symbol CIB1

Gene Full Name calcium and integrin binding 1 (calmyrin)

Background This gene encodes a member of the EF-hand domain-containing calcium-binding superfamily. The

encoded protein interacts with many other proteins, including the platelet integrin alpha-IIb-beta-3, DNA-dependent protein kinase, presenilin-2, focal adhesion kinase, p21 activated kinase, and protein kinase D. The encoded protein may be involved in cell survival and proliferation, and is associated with several disease states including cancer and Alzheimer's disease. Alternative splicing results in multiple

transcript variants. [provided by RefSeq, Apr 2013]

Function 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 Nmyristoylation-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

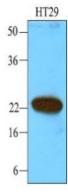
Isoform 2: Plays a regulatory role in angiogenesis and tumor growth by mediating PKD/PRKD2-induced vascular endothelial growth factor A (VEGFA) secretion. [UniProt]

Calculated Mw 22 kDa

PTM Phosphorylation of isoform 2 at Ser-118 by PRKD2 increases its ability to stimulate tumor angiogenesis.

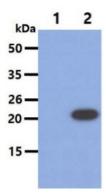
spermatogenic germ cells, and/or differentiation of supporting Sertoli cells.

Images



ARG56945 anti-CIB1 antibody [1D1] WB image

Western blot: 40 μg of HT29 stained with ARG56945 anti-CIB1 antibody [1D1] at 1:1000.



ARG56945 anti-CIB1 antibody [1D1] WB image

Western blot: 10 μg of 1) 293T cell lysate, 2) CIB1 Transfected 293T cell lysate stained with ARG56945 anti-CIB1 antibody [1D1] at 1:1000. .