SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

CIB (m2): 293T Lysate: sc-126639

BACKGROUND

Platelets regulate the function of Integrin α2b/β3 (GPIIb/IIIa), the platelet Fibrinogen receptor, which is involved in the binding of proteins to integrin cytoplasmic domains. A novel protein, CIB, for calcium- and integrin-binding protein (also designated as Kip for kinase interacting protein, SIP2-28 and DNA-PK_{cs} interacting protein), binds specifically at the cytoplasmic domain of α2b by a number of positively charged residues in its binding site. Binding of CIB to the α2b is affected by fluctuations in the intracellular calcium concentration. In aggregated platelets, endogenous CIB and α2b/β3 translocate to the Triton X-100-insoluble cytoskeleton, demonstrating that the cellular localization of CIB is regulated. CIB also binds to DNA-PK_{cs}, which is a nuclear protein serine/threonine kinase that plays a role in the DNA repair and recombination process of lymphoid development. Fnk also binds to the CIB, suggesting that CIB may be a regulatory subunit of polo-like kinases. CIB shows significant homology to calcineurin B and calmodulin, and its mRNA levels are ubiquitously expressed in various human tissues.

REFERENCES

1. Naik, U.P., et al. 1997. Identification of a novel calcium-binding protein that interacts with the Integrin α2b cytoplasmic domain. J. Biol. Chem. 272: 4651-4654.
2. Wu, X. and Lieber, M.R. 1997. Interaction between DNA-dependent protein kinase and a novel protein, Kip. Mutat. Res. 385: 13-20.
3. Shock, D.D., et al. 1999. Calcium-dependent properties of CIB binding to the Integrin α2b cytoplasmic domain and translocation to the platelet cytoskeleton. Biochem. J. 342: 729-735.
4. Seki, N., et al. 1999. Structure, expression profile, and chromosomal location of an isolog of DNA-PK_{cs} interacting protein (Kip) gene. Biochim. Biophys. Acta 1444: 143-147.
5. Hwang, P.M. and Vogel H.J. 2000. Structures of the platelet calcium- and integrin-binding protein and the Integrin α2b cytoplasmic domain suggest a mechanism for calcium-regulated recognition; homology modeling and NMR studies. J. Mol. Recognit. 13: 83-92.
6. Hattori, A., et al. 2000. Genomic structure of mouse and human genes for DNA-PK_{cs} interacting protein (Kip). DNA Seq. 10: 415-418.
7. Holtrich, U., et al. 2000. Adhesion induced expression of the serine/threonine kinase Fnk in human macrophages. Oncogene 19: 4832-4839.

CHROMOSOMAL LOCATION

Genetic locus: Cib1 (mouse) mapping to 7 D3.

PRODUCT

CIB (m2): 293T Lysate represents a lysate of mouse CIB transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

CIB (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CIB antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.