



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](https://www.linkedin.com/company/szaboscandic) 

RACK1 (h4): 293T Lysate: sc-171439

BACKGROUND

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. Receptor for activated C kinases, termed RACKs, are intracellular receptors for activated PKC that may be involved in the activation-induced translocation of PKC. RACK1 (receptor for activated C kinase 1) is a G protein β subunit-like protein that functions as a RACK and inhibits the activity of Src tyrosine kinases. In response to PKC activation, the intracellular localization of RACK1 and PKC $\beta 2$ changes, and RACK1 and PKC $\beta 2$ colocalize to the same sites. RACK1 is therefore thought to be a shuttling protein for PKC $\beta 2$. A deficit in RACK1 may be associated with impaired PKC activation in the aging brain.

REFERENCES

1. Nishizuka, Y. 1984. The role of protein kinase C in cell surface signal transduction and tumour promotion. *Nature* 308: 693-698.
2. Nishizuka, Y. 1984. Turnover of inositol phospholipids and signal transduction. *Science* 225: 1365-1370.
3. Mochly-Rosen, D., Khaner, H. and Lopez, J. 1991. Identification of intracellular receptor proteins for activated protein kinase C. *Proc. Natl. Acad. Sci. USA* 88: 3997-4000.
4. Ron, D., Chen, C.H., Caldwell, J., Jamieson, L., Orr, E. and Mochly-Rosen, D. 1994. Cloning of an intracellular receptor for protein kinase C: a homolog of the β subunit of G proteins. *Proc. Natl. Acad. Sci. USA* 91: 839-843.
5. Chang, B.Y., Conroy, K.B., Machleder, E.M. and Cartwright, C.A. 1998. RACK1, a receptor for activated C kinase and a homolog of the β subunit of G proteins, inhibits activity of src tyrosine kinases and growth of NIH/3T3 cells. *Mol. Cell. Biol.* 18: 3245-3256.
6. Dorit, R., Jiang, Z., Yao, L., Vagts, A., Diamond, I, and Gordon, A. 1999. Coordinated movement of RACK1 with activated bll PKC. *J. Biol. Chem.* 274: 27039-27046.

CHROMOSOMAL LOCATION

Genetic locus: RACK1 (human) mapping to 5q35.3.

PRODUCT

RACK1 (h4): 293T Lysate represents a lysate of human RACK1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

RACK1 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive RACK1 antibodies. Recommended use: 10-20 μ l per lane.

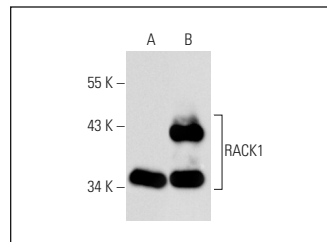
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RACK1 (B-3): sc-17754 is recommended as a positive control antibody for Western Blot analysis of enhanced human RACK1 expression in RACK1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



RACK1 (B-3): sc-17754. Western blot analysis of RACK1 expression in non-transfected: sc-117752 (A) and human RACK1 transfected: sc-171439 (B) 293T whole cell lysates.

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.

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.