SANTA CRUZ BIOTECHNOLOGY, INC.

RACK1 (131-317): sc-4294 WB

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 β2 changes, and RACK1 and PKC β2 co-localize to the same sites. RACK1 is therefore thought to be a shuttling protein for PKC β2. A deficit in RACK1 may be associated with impaired PKC activation in the aging brain.

REFERENCES

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SOURCE

RACK1 (131-317) is expressed in *E. coli* as a 48 kDa tagged fusion protein corresponding to amino acids 131-317 of RACK1 of human origin.

PRODUCT

RACK1 (131-317) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

RACK1 (131-317) is suitable as a Western blotting control for sc-10775.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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