

Product datasheet

Recombinant Human RAC3 protein ab103470

1 Image

Description

Product name	Recombinant Human RAC3 protein
Purity	> 95 % SDS-PAGE. ab103470 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P60763</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQAIKCVVVG DGAVGKTCLLSYTTNAFPGEYIPTVFDNYS ANVMVDGKP VNLGLWDTAGQEDYDRLRPLSYPTDVFLLICFSLVSPASF ENVRAKWYPE VRHHCPHTPILLVGTKLDRDDKDTIERLRDKKLAPITYPQG LAMAREIG SVKYLECSALTQRGLKTVFDEAIRAVLCPPPVKKPGKKC
Predicted molecular weight	21 kDa
Amino acids	1 to 189

Specifications

Our **Abpromise guarantee** covers the use of **ab103470** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -
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80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.00174% PMSF, 0.0308% DTT, 0.316% Tris HCl, 0.0292% EDTA, 10% Glycerol (glycerin, glycerine), 1.16% Sodium chloride

General Info

Function

Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as cell spreading and the formation of actin-based protrusions including lamellipodia and membrane ruffles. Promotes cell adhesion and spreading on fibrinogen in a CIB1 and alpha-IIb/beta3 integrin-mediated manner.

Tissue specificity

Highest levels in brain, also detected in heart, placenta and pancreas.

Sequence similarities

Belongs to the small GTPase superfamily. Rho family.

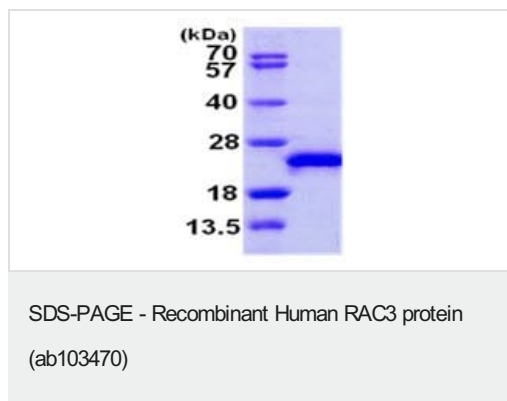
Post-translational modifications

(Microbial infection) Glycosylated at Tyr-32 by Photorehabdus asymbiotica toxin PAU_02230. Mono-O-GlcNAcylation by PAU_02230 inhibits downstream signaling by an impaired interaction with diverse regulator and effector proteins of Rac and leads to actin disassembly.

Cellular localization

Cytoplasm. Endomembrane system. Cell projection, lamellipodium. Cytoplasm, perinuclear region. Cell membrane. Cytoplasm, cytoskeleton. Membrane-associated when activated. Colocalizes with NRBP to endomembranes and at the cell periphery in lamellipodia. Colocalized with CIB1 in the perinuclear area and at the cell periphery.

Images



15% SDS-PAGE analysis of 3µg ab103470.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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