



Anti-Rac1 antibody ab97732

★★★★★ [1 Abreviews](#) [9 References](#) [画像数 2](#)

製品の概要

製品名	Anti-Rac1 antibody
製品の詳細	Rabbit polyclonal to Rac1
由来種	Rabbit
アプリケーション	適用あり: WB, ICC/IF
種交差性	交差種: Human
免疫原	Synthetic non phosphopeptide derived from around amino acids 69-73 of Human Rac1 (PLSYP). <div>  Run BLAST with  Run BLAST with </div>
ポジティブ・コントロール	Recombinant Human Rac1 protein (ab51014) can be used as a positive control in WB. HeLa cells; A431 cell extracts.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
精製度	Without Mg2+ and Ca2+ Immunogen affinity purified
特記事項 (精製)	ab97732 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.

ポリモノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

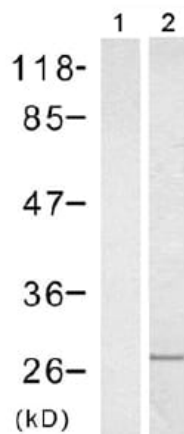
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab97732の使用に適用されます
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Predicted molecular weight: 21 kDa.
ICC/IF		1/100 - 1/200.

ターゲット情報

機能	Plasma membrane-associated small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as secretory processes, phagocytosis of apoptotic cells, epithelial cell polarization and growth-factor induced formation of membrane ruffles. Rac1 p21/rho GDI heterodimer is the active component of the cytosolic factor sigma 1, which is involved in stimulation of the NADPH oxidase activity in macrophages (By similarity). Essential for the SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly. Isoform B has an accelerated GEF-independent GDP/GTP exchange and an impaired GTP hydrolysis, which is restored partially by GTPase-activating proteins. It is able to bind to the GTPase-binding domain of PAK but not full-length PAK in a GTP-dependent manner, suggesting that the insertion does not completely abolish effector interaction.
組織特異性	Isoform B is predominantly identified in skin and epithelial tissues from the intestinal tract. Its expression is elevated in colorectal tumors at various stages of neoplastic progression, as compared to their respective adjacent tissues.
配列類似性	Belongs to the small GTPase superfamily. Rho family.
ドメイン	The effector region mediates interaction with DEF6.
翻訳後修飾	AMPylation at Tyr-32 and Thr-35 are mediated by bacterial enzymes in case of infection by H.somnus and V.parahaemolyticus, respectively. AMPylation occurs in the effector region and leads to inactivation of the GTPase activity by preventing the interaction with downstream effectors, thereby inhibiting actin assembly in infected cells. It is unclear whether some human enzyme mediates AMPylation; FICD has such ability in vitro but additional experiments remain to be done to confirm results in vivo.
細胞内局在	Cell membrane. Melanosome. Inner surface of plasma membrane possibly with attachment requiring prenylation of the C-terminal cysteine (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
製品の状態	Rac1 has high sequence homology with other Rac proteins. Therefore some antibodies may show cross-reactivity.

画像



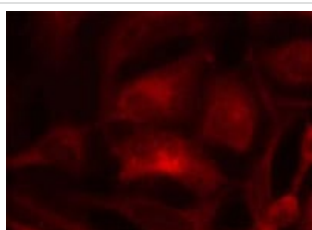
Western blot - Anti-Rac1 antibody (ab97732)

All lanes : Anti-Rac1 antibody (ab97732) at 1/500 dilution

Lane 1 : A431 cell extracts with immunizing peptide

Lane 2 : A431 cell extracts,

Predicted band size: 21 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Rac1 antibody (ab97732)

ab97732 at 1/100 dilution staining Rac1 in methanol-fixed HeLa cells by Immunofluorescence.

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