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Datasheet for ABIN713411 anti-RAC1 antibody (pSer71)

3 Images



Overview

Quantity:	100 µL
Target:	RAC1
Binding Specificity:	pSer71
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human RAC1 around the phosphorylation site of Ser71
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	RAC1
Abstract:	RAC1 Products

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Target Details	
Background:	Synonyms: MIG5, Rac-1, TC-25, p21-Rac1, Ras-related C3 botulinum toxin substrate 1, Cell
	migration-inducing gene 5 protein, Ras-like protein TC25, RAC1, TC25
	Background: 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. Essential for the
	SPATA13-mediated regulation of cell migration and adhesion assembly and disassembly.
	Stimulates PKN2 kinase activity. In concert with RAB7A, plays a role in regulating the formation
	of RBs (ruffled borders) in osteoclasts. In glioma cells, promotes cell migration and invasion. In
	podocytes, promotes nuclear shuttling of NR3C2, this modulation is required for a proper
	kidney functioning. Required for atypical chemokine receptor ACKR2-induced LIMK1-PAK1-
	dependent phosphorylation of cofilin (CFL1) and for up-regulation of ACKR2 from endosomal
	compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation.
	In synapses, seems to mediate the regulation of F-actin cluster formation performed by
	SHANK3. 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.
Gene ID:	5879
UniProt:	P63000
Pathways:	WNT Signaling, Regulation of Actin Filament Polymerization, Cell-Cell Junction Organization,
	Thromboxane A2 Receptor Signaling, VEGF Signaling

Application Details

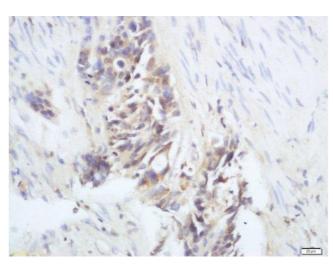
Application Notes:	WB 1:100-1000
	IHC-P 1:100-500
	IF(IHC-P) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

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Handling

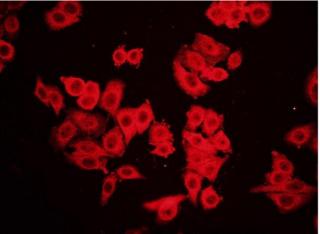
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

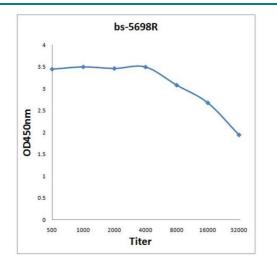
Image 1. Formalin-fixed and paraffin embedded human colon cancer labeled with Anti-phospho-RAC1(Ser71) Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Cultured Cells)

Image 2. FHC cells probed with Rabbit Anti-RAC1(Ser71) Polyclonal Antibody Alexa Fluor Cy3

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ELISA

Image 3. Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450

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