G-Biosciences Image not found or type unknown

Immunotag™ Phospho-Rac1/cdc42 (Ser71) Antibody

Antibody Specification

Catalog No.	ITA0721
Product Description	Immunotag™ Phospho-Rac1/cdc42 (Ser71) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-Rac1/cdc42 (Ser71)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC
Recommended Dilution	WB 1:500-1:2000, IHC 1:50-1:200 IF/ICC 1:100-500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Rac1/cdc42 around the phosphorylation site of Ser71.
Specificity	Phospho-Rac1/cdc42 (Ser71) Antibody detects endogenous levels of Rac1/cdc42.
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	RAC1
Accession No.	P63000

Antibody Specification

Alternate Names	Cell migration inducing gene 5 protein; Cell migration-inducing gene 5 protein; MGC111543; MIG5; Migration inducing gene 5; Migration inducing protein 5; p21 Rac1; p21-Rac1; Rac 1; RAC1; RAC1_HUMAN; Ras like protein TC25; Ras related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1); Ras-like protein TC25; Ras-related C3 botulinum toxin substrate 1; Rho family small GTP binding protein Rac1; TC 25; TC25;
Description	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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	28kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.