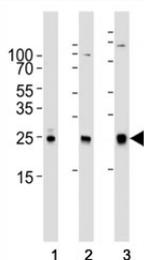


## RAC1 Antibody [clone 1301CT276.121.104] (F52547)

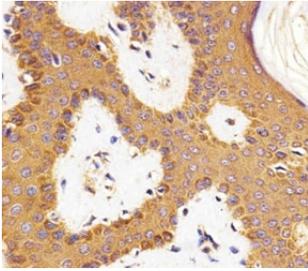
Catalog No.	Formulation	Size
F52547-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52547-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

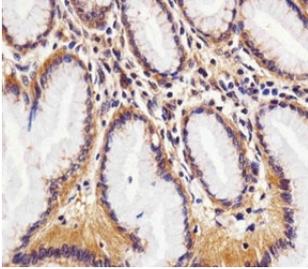
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Rat
<b>Predicted Reactivity</b>	Bovine, Mouse
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b
<b>Clone Name</b>	1301CT276.121.104
<b>Purity</b>	Purified
<b>UniProt</b>	P63000
<b>Applications</b>	Flow Cytometry : 1:100 IHC (Paraffin) : 1:25 Western Blot : 1:1000
<b>Limitations</b>	This RAC1 antibody is available for research use only.



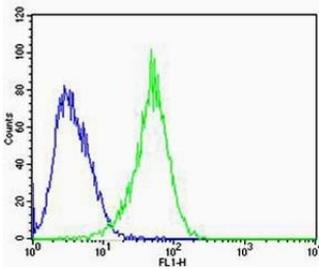
Western blot analysis of lysate from (1) human A431, (2) mouse NIH3T3, (3) rat C6 cell line using RAC1 antibody at 1:1000.



Immunohistochemical analysis of paraffin-embedded human skin section using RAC1 antibody at 1:25 dilution.



Immunohistochemical analysis of paraffin-embedded human stomach section using RAC1 antibody at 1:25 dilution.



Flow cytometric analysis of U-87 MG cells using RAC1 antibody (green) and an isotype control of mouse IgG2b (blue); Ab was diluted at 1:100 dilution.

## 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.

## Application Notes

Titration of the RAC1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

This RAC1 antibody was produced from a mouse immunized with a KLH conjugated synthetic peptide from the human protein.

## Storage

Aliquot the RAC1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

