

# **Rac 1 monoclonal antibody**

Catalog: MB67052

Host:

Mouse

Reactivity: Human, Rat

### **BackGround:**

Rac and Cdc42 are members of the Rho-GTPase family. In mammals, Rac exists as three isoforms, Rac1, Rac2 and Rac3, which are highly similar in sequence. Rac1 and Cdc42, the most widely studied of this group, are ubiquitously expressed. Rac2 is expressed in cells of hematopoietic origin, and Rac3, while highly expressed in brain, is also found in many other tissues. Rac and Cdc42 play key signaling roles in cytoskeletal reorganization, membrane trafficking, transcriptional regulation, cell growth and development . GTP binding stimulates the activity of Rac/Cdc42, and the hydrolysis of GTP to GDP through the protein's intrinsic GTPase activity, rendering it inactive. GTP hydrolysis is aided by GTPase activating proteins (GAPs), while exchange of GDP for GTP is facilitated by guanine nucleotide exchange factors (GEFs). Another level of regulation is achieved through the binding of RhoGDI, a guanine nucleotide dissociation inhibitor, which retains Rho family GTPases, including Rac and Cdc42, in their inactive GDP-bound state.

### **Product:**

Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

**Molecular Weight:** 

~ 24 kDa

**Swiss-Prot:** 

### P63000

**Purification&Purity:** 

This antibody is purified through a protein G column.

### **Applications:**

WB (1/500 - 1/1000), IHC (1/50 - 1/200), FC (1/10 - 1/50)

### **Storage&Stability:**

Store at  $4\,\mathrm{C}$  short term. Aliquot and store at -20  $\mathrm{C}$  long

# term. Avoid freeze-thaw cycles.

**Specificity:** 

# **Bioworld Technology, Inc.**

 
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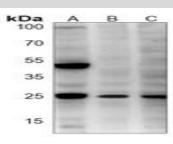
 Email:
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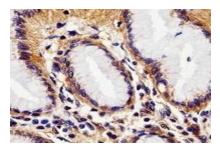
 Fax:
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# Recognizes endogenous levels of Rac 1 protein.

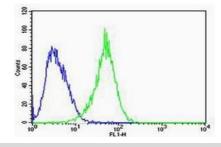
### **DATA:**



Western blot analysis of Rac 1 expression in A431 (A), NIH3T3 (B), C6 (C) whole cell lysates.



Immunohistochemical analysis of Rac 1 staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



#### Note:

For research use only, not for use in diagnostic procedure.

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