

RAC1 (4-6-6) monoclonal antibody

Catalog: BS66506

Host: Mouse

Reactivity: Human

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 IgG, 1.1mg/ml in PBS with 0.05% Proclin300, 50% glycerol, pH7.2.

Molecular Weight:

~ 21 kDa

Swiss-Prot:

P63000

Purification&Purity:

The antibody was affinity-purified from cell culture supernatant by protein A+G and the purity is > 95% (by SDS-PAGE).

Applications:

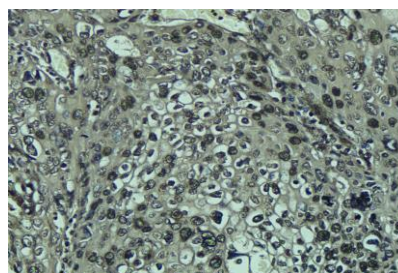
IHC: 1:50~1:200

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

RAC1 (4-6-6) monoclonal antibody detects endogenous levels of RAC1 protein.

DATA:

Immunohistochemical analysis of RAC1 staining in human lung paraffin embedded tissue section.

Note:

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

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