Rac1

Catalog Number									
	Size	Ol	d	New					
	50 µg	R5622	0-050	610650					
	150 µg	R5622	0-150	610651					
Isotype		Mouse IgG2b							
Clone		102							
M	ol. Weight	21							
Pos. Control Rat Cerebrum									
Ap	oplications	wв 1:1000	IP -	IF IH + +					
Re	eactivity ^{Hu}	iman Dog + +	Rat Mouse + +	e Chick F +	rog				

This antibody is routinely tested by the Western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only.

RELATED PRODUCTS

CDC42	610928
IQGAP1	610611
Phosphoserine	612546
Phosphoserine/threonine	612548
Rac1:FITC	610652
Ras	610001
Ras:FITC	611840
Ras-GAP	610040

Rac1 is a member of the expanding family of Ras-related GTPase proteins. These Rac1 is a member of the expanding family of Ras-related GTPase proteins. These small proteins have the ability to switch between two different conformational states: the active (GTP-bound) and the inactive (GDP-bound). The GTPase activity is increased by specific activator proteins named GAPs. Rac1, contains the consensus sequence Cys-X-X-COOH, which localizes it to the plasma membrane. Growth factor stimulation of cells results in a dramatic reorganization of the actin filament network and membrane ruffling, processes for which Rac1 is essential. Constitutive expression of Rac1 leads to cell transformation. This process is mediated by the Rac1-dependent activation of the p65PAK serine/threonine kinase. IQGAP1 has been identified as a GTPase activating protein specific for Rac1

protein specific for Rac1. Testing in native ELISA with recombinant proteins to CDC42 and Rho have shown that the antibody to Rac1 (cat No 610650/1) recognizes CDC42 and Rho. Due to sequence homology among various small GTPase familyl members, potential reactivity could be observed with other family members. BD Pharmingen has not performed such cross-reactivity testing with other family members.

References

Didsbury, J., et al. 1989 J. Biol. Chem. 264:16378-16382 (Background Ref.) Nobes, C.D. and Hall, A. 1995 Cell 1995:81 (Background Ref.) Innocenti, M., et al. 2002 J. Cell Biol. 156:125-136 (IF,WB: M. embryo fibroblast) Doye, A., et al. 2002 Cell 111:553-564 (IF,WB,pull-down: R bladder cells) Habas, R., et al. 2003 Genes and Devel. 17:295-309 (IP,WB: H kidney cells; WB: F embryo)

Generated from human Rac1



Buffer and Storage

Aqueous buffered solution containing BSA*, glycerol and less than or equal to 0.09% sodium azide. Store at -20°C.

*Source of all serum proteins is from USDA inspected abattoirs located in the United States. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

21kDa Rat Brain



Human Fibroblast



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