Technical Data Sheet

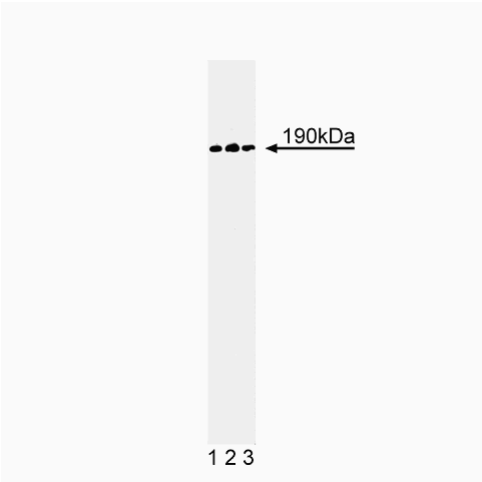
Purified Anti- p190-B

Product Information

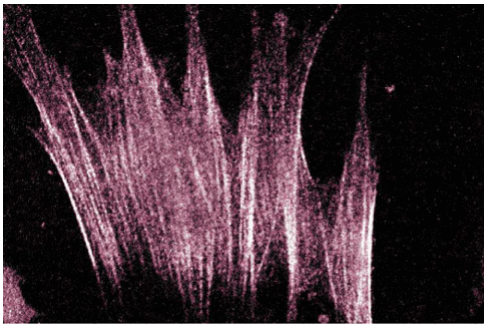
Material Number:	**611612**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	54/P190-B
Immunogen:	Human p190-B aa. 1102-1214
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat, Dog
Target MW:	190 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

GTPase activating proteins (GAPs) stimulate the GTP-hydrolyzing activity of GTPases, such as p21ras and Rho. p190-A is a Ras-GAP associated protein that is tyrosine phosphorylated in transformed and growth factor-stimulated cells. Ras-GAP and p190-A are targets of oncoproteins and growth factor receptors. p190-B is another Ras-GAP in the p190 family. It has 51% identity with p190-A and contains several GTPase-related domains in the N-terminal region and a Rho-GAP domain in the C-terminal region. p190-B is expressed in kidney, brain, liver, and lung, as well as in human foreskin fibroblasts, RD muscle cells, and HT-1080 cells. In fibroblasts, p190-B is localized diffusely in the cytoplasm and co-localizes with the α5β1 integrin receptor for fibronectin. Adhesion of fibronectin-coated latex beads to cells leads to the recruitment of p190-B and Rho to the plasma membrane at sites of bead contact. In addition, the recombinant Rho-GAP domain of p190-B displays GAP activity for RhoA, Rac1, and G25K/CDC42Hs. Thus, p190-B is thought to act as a transmembrane link between integrins and Rho GTPases during fibronectin-induced changes in cell morphology and motility.



Western blot analysis of p190-B on a A431 cell lysate (Human epithelial carcinoma; ATCC CRL-1555). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- p190-B antibody.*



Immunofluorescence staining of human fibroblasts.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Burbelo PD, Finegold AA, Kozak CA, Yamada Y, Takami H. Cloning, genomic organization and chromosomal assignment of the mouse p190-B gene. *Biochim Biophys Acta.* 1998; 1443(1-2):203-210.(Biology)

Burbelo PD, Miyamoto S, Utani A, et al. p190-B, a new member of the Rho GAP family, and Rho are induced to cluster after integrin cross-linking. *J Biol Chem.* 1995; 270(52):30919-30926.(Biology)