Technical Data Sheet

Purified Mouse anti-p130Cas (pY249)

Product Information

Material Number: 558401 Size: $0.1 \, \text{mg}$ 0.5 mg/mlConcentration: J169-757.12.2 Clone:

Phosphorylated Human p130Cas Immunogen:

Isotype: Mouse IgG2b, κ Reactivity: QC Testing: Human

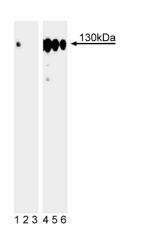
Target MW: 130 kDa

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

p47v-crk (v-Crk) is the product of a transforming gene, v-crk, that was isolated from avian sarcoma viruses. The v-Crk protein is a fusion product of viral Gag protein and a part of cellular Crk that includes SH2 and SH3 domains. v-Crk-induced transformation increases tyrosine phosphorylation of several cellular proteins, including p130Cas (CRK-associated substrate). The p130Cas is tightly associated with v-Crk via the SH2 domain of v-Crk. Tyrosine phosphorylation of p130Cas occurs in conjunction with cellular transformation in cells that express v-Src or v-Crk. This phosphorylation leads to a change in p130Cas localization from the cytoplasm to the cell membrane and, possibly, to the nucleus. Since p130Cas also associates with v-Src, it may be a v-Src substrate. Several phosphorylation sites have been described in p130Cas upon Fibroblast Growth Factor stimulation, and phosphorylated tyrosine (Y249) might function as a binding site for the Crk-adaptor molecule.

The J169-757.12.2 monoclonal antibody recognizes the phosphorylated Y249 of human p130Cas. The orthologous phosphorylation sites in mouse and rat p130Cas are Y253 and Y347, respectively.



Western blot analysis of p130Cas (pY249) in human Burkitt's lymphoma. Lysates from control (left panel) and hydrogen peroxide-activated (right panel) Ramos cells were probed with purified mouse anti-p130Cas (pY249) monoclonal antibody) at concentrations of 0.125 (lanes 1 and 4), 0.0625 (lanes 2 and 5), and 0.0312 μg/ml (lanes 3 and 6). p130Cas (pY249) is identified as a band of 130 kDa in the treated cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

Application

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Γ	Western blot	Routinely Tested	

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 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.

References

Goldberg GS, Alexander DB, Pellicena P, Zhang Z-Y, Tsuda H, Miller WT. Src phosphorylates Cas on tyrosine 253 to promote migration of transformed cells. *J Biol Chem.* 2003; 278(47):46533-46540.(Biology)

Hinsby AM, Olsen JV, Bennett KL, Mann M. Signaling initiated by overexpression of the fibroblast growth factor receptor-1 investigated by mass spectrometry. *Mol Cell Proteomics*. 2003; 2(1):29-36.(Biology)

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