

## Technical Data Sheet

**Purified Mouse anti-p130Cas (pY249)****Product Information**

<b>Material Number:</b>	558401
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	J169-757.12.2
<b>Immunogen:</b>	Phosphorylated Human p130Cas
<b>Isotype:</b>	Mouse IgG2b, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Target MW:</b>	130 kDa
<b>Storage Buffer:</b>	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**

Western blot	Routinely Tested
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**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](http://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.

#### 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)