Datasheet for ABIN967872

anti-BCAR1 antibody (AA 644-819)

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Overview

Quantity:	150 µg
Target:	BCAR1
Binding Specificity:	AA 644-819
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BCAR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Rat p130 [Cas] aa. 644-819
Clone:	21-p130[Cas]
Isotype:	IgG1
Cross-Reactivity:	Human, Chicken, Dog (Canine), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us 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.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	BCAR1
Alternative Name:	p130 Cas (BCAR1 Products)
Background:	P47 [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 the 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 p130 [Cas]. p130 [Cas] is tightly associated with v-crk via the SH2 domain of v-crk. Tyrosine phosphorylation of p130 [Cas] occurs in conjunction with cellular transformation in cells that express v-src or v-crk. This phosphorylation leads to a change in p130 [Cas] localization from the cytoplasm to the cell membrane and, possibly, to the nucleus. Since p130 [Cas] also associates with v-src, it may be a v-src substrate. This antibody is routinely tested by western blot analysis.
Molecular Weight:	130 kDa
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, CXCR4-mediated Signaling Events, Platelet-derived growth Factor Receptor Signaling

Application Details

Comment:	Related Products: ABIN968536, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Hermanto, Zong, Li, Wang: "RACK1, an insulin-like growth factor I (IGF-I) receptor-interacting protein, modulates IGF-I-dependent integrin signaling and promotes cell spreading and contact with extracellular matrix." in: **Molecular and cellular biology**, Vol. 22, Issue 7, pp. 2345-65, (2002) (PubMed).

Nagashima, Endo, Ogita, Kawana, Yamagishi, Kitabatake, Matsuda, Mochizuki: "Adaptor protein Crk is required for ephrin-B1-induced membrane ruffling and focal complex assembly of human aortic endothelial cells." in: **Molecular biology of the cell**, Vol. 13, Issue 12, pp. 4231-42, (2002) (PubMed).

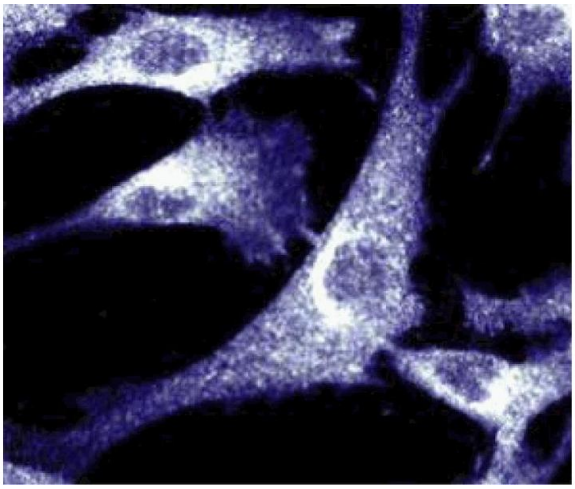
Derkinderen, Toutant, Kadaré, Ledent, Parmentier, Girault: "Dual role of Fyn in the regulation of FAK+6,7 by cannabinoids in hippocampus." in: **The Journal of biological chemistry**, Vol. 276, Issue 41, pp. 38289-96, (2001) (PubMed).

Kook, Shim, Choi, Ahnn, Kim, Eom, Jung, Paik, Song: "Caspase-mediated cleavage of p130cas in etoposide-induced apoptotic Rat-1 cells." in: **Molecular biology of the cell**, Vol. 11, Issue 3, pp. 929-39, (2000) (PubMed).

Sakai, Iwamatsu, Hirano, Ogawa, Tanaka, Mano, Yazaki, Hirai: "A novel signaling molecule, p130, forms stable complexes in vivo with v-Crk and v-Src in a tyrosine phosphorylation-dependent manner." in: **The EMBO journal**, Vol. 13, Issue 16, pp. 3748-56, (1994) (PubMed).

Western Blotting

Image 1. Western blot analysis of p130 [Cas] on a human endothelial cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- p130 [Cas] antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human fibroblasts.

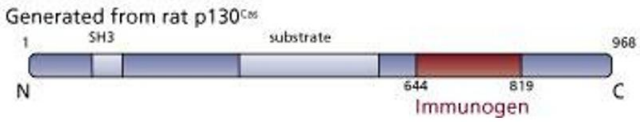


Image 3.