



p130 Cas Rabbit mAb

Catalog No	YP-rAb-17252
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Gene Name	BCAR1
Protein Name	Breast cancer anti-estrogen resistance protein 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	p130 Cas;Breast cancer anti-estrogen resistance protein 1;BCAR1 ; CAS ; CASS1 ; CRKAS ; Breast cancer anti-estrogen resistance protein 1 ; CRK-associated substrate ; Cas scaffolding protein family member 1 ; p130cas;BCAR1
Observed Band	130kD
Calculated Molecular Weight	93kD
Cell Pathway	Cell junction, focal adhesion . Cytoplasm . Cell projection, axon . Unphosphorylated form localizes in the cytoplasm (By similarity) . Localizes to focal adhesion sites following integrin engagement (By similarity). .
Tissue Specificity	Widely expressed with an abundant expression in the testis. Low level of expression seen in the liver, thymus, and peripheral blood leukocytes. The protein has been detected in a B-cell line.
Function	Domain:A serine-rich region promotes activation of the serum response element (SRE).,Domain:Contains a central domain (substrate domain) containing multiple potential SH2-binding sites and a C-terminal domain containing a divergent helix-loop-helix (HLH) motif. The SH2-binding sites putatively bind CRK, NCK and ABL SH2 domains. The HLH motif is absolutely required for the induction of pseudohyphal growth in yeast and mediates heterodimerization with CASL.,Domain:The SH3 domain is necessary for the localization of the protein to focal adhesions and interacts with one proline-rich region of focal adhesion kinase 1.,Function:Docking protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion. Implicated in induction of



cell migration. Overexpression confers antiestrogen resistance on breast cancer cells.,PTM:Focal adhesion kinase 1 phosphorylates the protein at the YDYVHL motif. SRC-family kinases are recruited to the phosphorylated sites and can phosphorylate other tyrosine residues. Tyrosine phosphorylation is triggered by integrin mediated adhesion of cells to the extracellular matrix.,similarity:Belongs to the CAS family.,similarity:Contains 1 SH3 domain.,subcellular location:Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.,subunit:Forms complexes in vivo with focal adhesion kinase 1, adapter protein CRKL and LYN kinase. Can heterodimerize with CASL. Interacts with BCAR3, NPHP1, PTK2B and SH2D3C (By similarity). Interacts with activated CSPG4. Interacts with INPPL1/SHIP2.,tissue specificity:Widely expressed with an abundant expression in the testis. Low level of expression seen in the liver, thymus, and peripheral blood leukocytes. The protein has been detected in a B-cell line.,

Background

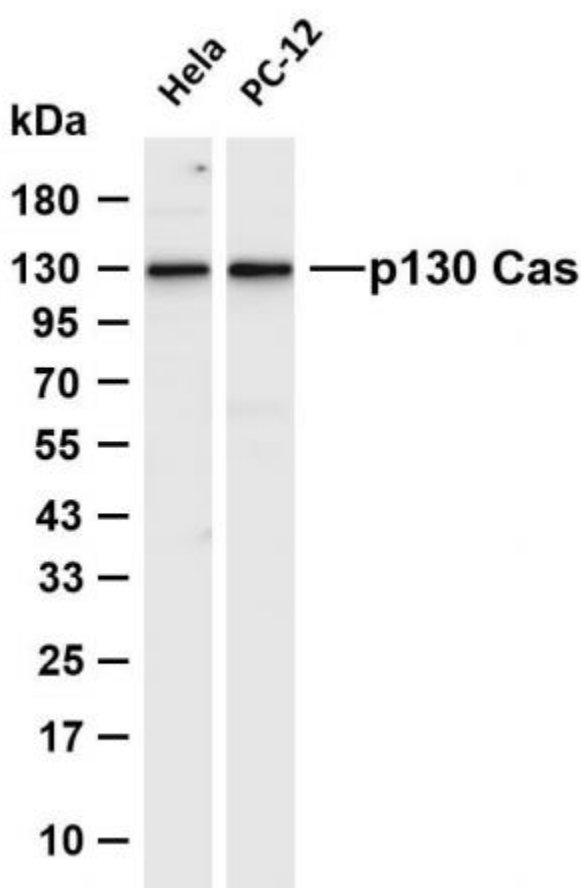
BCAR1, or CAS, is an Src (MIM 190090) family kinase substrate involved in various cellular events, including migration, survival, transformation, and invasion (Sawada et al., 2006 [PubMed 17129785]).[supplied by OMIM, May 2009],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-p130 Cas antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: PC-12 Predicted band size: 93kDa Observed band size: 130kDa

