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[Primary Antibody]

Rabbit Anti-BCAR1 antibody

Catalog Number: SL6223R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	BCAR1
Immunogen:	KLH conjugated synthetic peptide derived from human BCAR1: 561-660/870
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Cow, Rabbit)
Predicted MW.:	93kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	p130 represents one of several known substrates for v-Crk encoded p47. p130 Cas (for Crk-associated substrate) exhibits a high level of tyrosine phosphorylation and is tightly associated with v-Crk, suggesting a role in v-Crk-mediated cell signaling. The molecular cloning of p130 Cas has shown it to represent a novel SH3 containing signaling molecule with a cluster of multiple putative SH2-binding motifs for v-Crk. By immunoprecipitation analysis, p130 Cas has been shown to be highly phosphorylated at tyrosine residues subsequent to either v-Src p60 or v-Crk-mediated transformation and to form stable complexes with both of these transforming proteins. p130 Cas behaves as an extremely potent substrate for protein tyrosine kinases and has been reported to relocate from the cytoplasm to cell membrane upon tyrosine phosphorylation.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	One proposed model is that the SH2 domain of v-Crk functions to activate c-Src kinase, which in turn phosphorylates p130 Cas. **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. **Subunit:** Forms complexes in vivo with PTK2/FAK1, adapter protein CRKL and LYN kinase. Can heterodimerize with NEDD9. Interacts with BCAR3, NPHP1 and SH2D3C (By similarity). Interacts with activated CSPG4. Interacts with BMX, INPPL1/SHIP2 and PEAK1. Part of a collagen-stimulated complex involved in cell migration made of CDC42, CRK, TNK2 and BCAR1/p130cas. Interacts with TNK2 via SH3 domains. Interacts with PTK2B/PYK2. **Subcellular Location:** Cell junction, focal adhesion. Cytoplasm. Note=Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation **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. **Post-translational modifications:** PTK2/FAK1 activation mediates phosphorylation at the YDYVHL motif; phosphorylation is most likely catalyzed by SRC family members. 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. Contains 1 SH3 domain. **Database links:** **Entrez Gene:** 527550 Cow **Entrez Gene:** 9564 Human **Entrez Gene:** 12927 Mouse **Entrez Gene:** 25414 Rat Omim: 602941 Human **SwissProt:** P56945 Human **SwissProt:** Q61140 Mouse **SwissProt:** Q63767 Rat **Unigene:** 479747 Human **Unigene:** 3758 Mouse **Unigene:** 40101 Rat

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