

Rabbit p130 Cas Polyclonal Antibody | anti-p130Cas antibody

Phospho-p130 Cas (Tyr165) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329464	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (92%), Bovine (91%), Horse (92%), Sheep (92%), Rabbit (92%)	ELISA, Western Blot

PRODUCT SYNONYMS

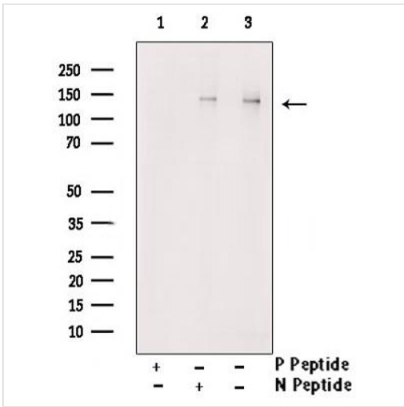
p130 Cas; Polyclonal Antibody; Phospho-p130 Cas (Tyr165) Antibody; BCAR 1; Bcar1; BCAR1_HUMAN; Breast cancer anti estrogen resistance 1; Breast cancer anti estrogen resistance 1 protein; Breast cancer anti-estrogen resistance protein 1; CAS; Cas scaffolding protein family member 1; CAS1; Cass1; Crk associated substrate; Crk associated substrate p130Cas; CRK-associated substrate; CRKAS; FLJ12176; FLJ45059; p130cas; anti-p130Cas antibody

PRODUCT SPECIFICATIONS

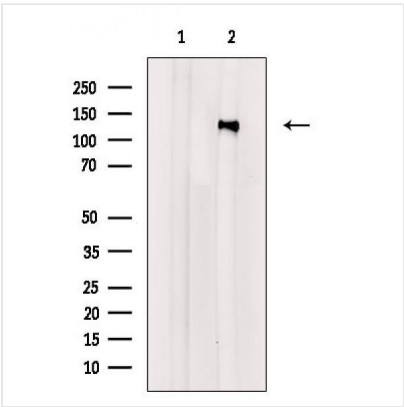
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (92%), Bovine (91%), Horse (92%), Sheep (92%), Rabbit (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-p130 Cas (Tyr165) Antibody detects endogenous levels of p130 Cas only when phosphorylated at Tyr165. Tissue Specificity: 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-p130Cas antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human p130 Cas around the phosphorylation site of Tyr165.
Conjugation	Unconjugated
Fragment	Fab fragment
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. Dephosphorylated by PTPN14 at Tyr-128.
Subunit Structure	Forms complexes in vivo with PTK2/FAK1, adapter protein CRKL and LYN kinase. Can heterodimerize with NEDD9. Interacts with BCAR3, the interaction regulates adhesion-dependent serine phosphorylation. Interacts with NPHP1 and SH2D3C. Interacts with activated CSPG4. Interacts with BMX, INPPL1/SHIP2 and PEA1. 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.
Similarity	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 ABL1 SH2 domains. The HLH motif is absolutely required for the induction of pseudohyphal growth in yeast and mediates heterodimerization with NEDD9 (By similarity). A serine-rich region promotes activation of the serum response element (SRE). The SH3 domain is necessary for the localization of the protein to focal adhesions and interacts with one proline-rich region of PTK2/FAK1. Belongs to the CAS family.

Subcellular Location	Cell junction>Focal adhesion. Cytoplasm. Note: Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from NIH-3T3, using Phospho-p130 Cas (Tyr165) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from 3T3-L1P6(heat shock treatment), using Phospho-p130 Cas (Tyr165) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-p130Cas antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	282398112
NCBI GeneID	9564
NCBI Accession #	NP_001164185.1
NCBI GenBank Nucleotide #	NM_001170714.1
UniProt Accession #	P56945; Q6QEF7; B4DIW5; B7Z7X7; F5GXV6; F8WA69
Molecular Weight	93,372 Da
NCBI Official Full Name	breast cancer anti-estrogen resistance protein 1 isoform 1
NCBI Official Synonym Full Names	breast cancer anti-estrogen resistance 1
NCBI Official Symbol	BCAR1
NCBI Official Synonym Symbols	CAS; CAS1; CASS1; CRKAS; P130Cas
NCBI Protein Information	breast cancer anti-estrogen resistance protein 1; Crk-associated substrate p130Cas; Cas scaffolding protein family member 1
UniProt Protein Name	Breast cancer anti-estrogen resistance protein 1
UniProt Gene Name	BCAR1
UniProt Synonym Gene Names	CAS; CASS1; CRKAS
UniProt Entry Name	BCAR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/p130-cas-antibody-peptide-elisa-western-blot-elisa/329464>