

Rabbit p130 Cas Polyclonal Antibody | anti-BCAR1 antibody

Phospho-p130 Cas (Tyr249) Antibody

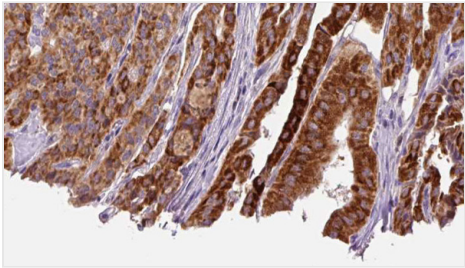
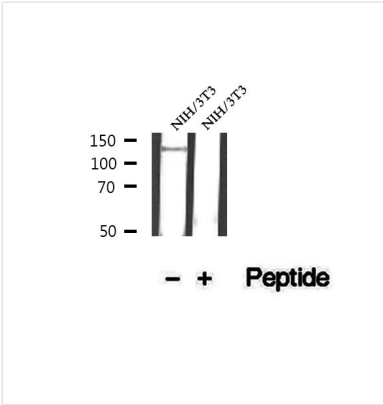
CATALOG # AAA321359	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

p130 Cas; Polyclonal Antibody; Phospho-p130 Cas (Tyr249) 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-BCAR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-p130 Cas (Tyr249) antibody detects endogenous levels of p130 Cas.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	916
Applicable Applications for anti-BCAR1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human p130 Cas around the phosphorylation site of Tyr249.
Subcellular Location	Cell Junction, Focal Adhesion. Cytoplasm. 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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (90%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Chicken (83%), Xenopus (89%)
Conjugation	Unconjugated
Epitope	Phospho Tyr249
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321359 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of NIH/3T3 cells, using Phospho-p130 Cas (Tyr249) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BCAR1 antibody	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 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. 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. 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/FAK11. Belongs to the CAS family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	282398112
NCBI GeneID	9564
NCBI Accession #	NP_001164185.1
NCBI GenBank Nucleotide #	NM_001170714.2
UniProt Accession #	P56945; B3KWD7; B4DEV4; B4DGB5; B4DIW5; B7Z7X7; E9PCL5; E9PCV2; F5GXA2; F5GXV6; F5H7Z0; F8WA69
Molecular Weight	Observed: 130 kDa Predicted: 94 kDa
NCBI Official Full Name	breast cancer anti-estrogen resistance protein 1 isoform 1
NCBI Official Synonym Full Names	BCAR1, Cas family scaffold protein
NCBI Official Symbol	BCAR1
NCBI Official Synonym Symbols	CAS; CAS1; CASS1; CRKAS; P130Cas

NCBI Protein Information	breast cancer anti-estrogen resistance protein 1
UniProt Protein Name	Breast cancer anti-estrogen resistance protein 1
UniProt Gene Name	BCAR1
UniProt Synonym Gene Names	CAS; CASS1; CRKAS

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://stage.aaabiotech.com/polyclonal/p130-cas-antibody-immunohistochemistry-western-blot-elisa/321359>