

Product datasheet

Anti-BCAR1 (phospho Y762) antibody ab41827

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Overview

Product name	Anti-BCAR1 (phospho Y762) antibody
Description	Rabbit polyclonal to BCAR1 (phospho Y762)
Host species	Rabbit
Specificity	This antibody detects a 130 kDa protein corresponding to the molecular mass of phosphorylated BCAR1 on SDS-PAGE immunoblots of pervanadate treated human A431 cells, but not in control cells.
Tested applications	Suitable for: WB, ELISA, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 762 in the Src binding domain of rat BCAR1. This rat sequence is the same as Tyr-664 in human BCAR1 and Tyr-664 in mouse BCAR1. This site is also highly conserved in Cas-L (HEF1, Nedd9).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	This antibody was cross-adsorbed to phospho-tyrosine coupled to agarose and to phospho-BCAR1(Tyr-751) peptide before affinity purification using phospho-BCAR1(Tyr-762) peptide (without carrier).
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab41827** in the following tested applications.

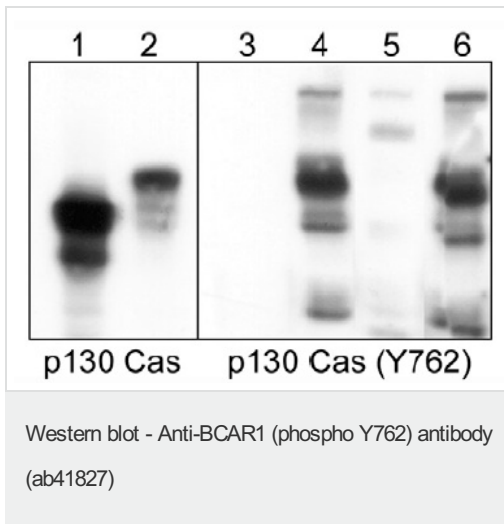
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 130 kDa.
ELISA		1/2000.
ICC/IF	★★★★★	Use at an assay dependent concentration. PubMed: 22084245

Target

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.
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.
Sequence similarities	Belongs to the CAS family. Contains 1 SH3 domain.
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 ABL1 SH2 domains. The HLH motif is absolutely required for the induction of pseudohyphal growth in yeast and mediates heterodimerization with NEDD9. 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.
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.
Cellular localization	Cell junction, focal adhesion. Cytoplasm. Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.

Images



Western blot analysis of A431 cells serum starved overnight (lanes 1 & 3) or treated with pervanadate (1 mM) for 30 minutes (lanes 2, 4-6). The blot was probed with anti-BCAR1 (lanes 1 & 2) or anti-BCAR1 (Tyr-762) (lanes 3-6). The latter was used in the presence of no peptide (lane 4), phospho-p130 Cas (Tyr-762) peptide (lane 5) or phospho-BCAR1 (Tyr-751) peptide (lane 6).



ab41827 staining BCAR1 in stable PC3 cells by Immunocytochemistry/ Immunofluorescence. Cells were counterstained with DAPI (blue).

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