

## Product datasheet

# Anti-BCAR1 (phospho Y762) antibody ab41827

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### Overview

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<b>Product name</b>	Anti-BCAR1 (phospho Y762) antibody
<b>Description</b>	Rabbit polyclonal to BCAR1 (phospho Y762)
<b>Host species</b>	Rabbit
<b>Specificity</b>	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.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Rat BCAR1 (phospho Y762). Database link: <a href="#">Q63767</a>
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	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).
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** 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.

## Target

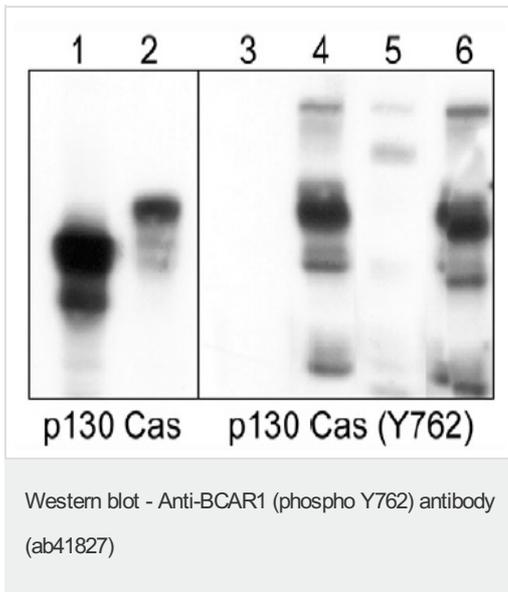
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<b>Function</b>	Docking protein which plays a central coordinating role for tyrosine kinase-based signaling related to cell adhesion. Implicated in induction of cell migration. Overexpression confers antiestrogen resistance on breast cancer cells.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the CAS family. Contains 1 SH3 domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Cell junction, focal adhesion. Cytoplasm. Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.

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## Images

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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).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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