abcam

Product datasheet

Anti-BCAR1 (phospho Y751) antibody ab45486

1 Image

Overview

Product name	Anti-BCAR1 (phospho Y751) antibody
Description	Rabbit polyclonal to BCAR1 (phospho Y751)
Host species	Rabbit
Specificity	The antibody detects a 130 kDa protein corresponding to the molecular mass of phosphorylated p130 Cas on SDS-PAGE immunoblots of pervanadate treated human endothelial and A431 cells, but is not observed in control cells.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide corresponding to Rat BCAR1 (phospho Y751) conjugated to keyhole limpet haemocyanin. Database link: **Q63767**
Positive control	Pervanadate treated human endothelial and A431 cells
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
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-p130 Cas (Tyr-762) peptide before affinity purification using phospho-p130 Cas (Tyr-751) peptide (without carrier).

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab45486 in the following tested applications.

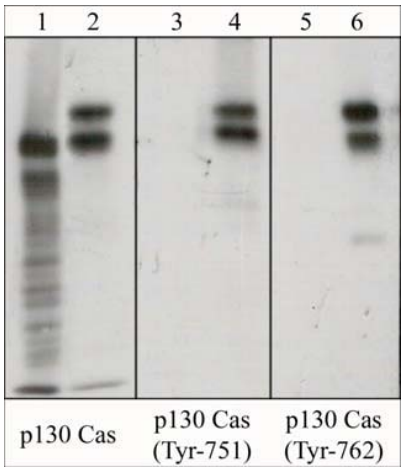
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 93 kDa.

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 - Anti-BCAR1 (phospho Y751) antibody (ab45486)

Lanes 1-2 : anti-p130 Cas
Lanes 3-4 : Anti-BCAR1 (phospho Y751) antibody (ab45486) at 1/2000 dilution
Lanes 5-6 : anti-p130 Cas (Tyr-762)

Lanes 1 & 3 & 5 : human endothelial cells serum starved overnight
Lanes 2 & 4 & 6 : human endothelial cells treated with pervanadate (1 mM) for 30 minutes

Predicted band size: 93 kDa
Observed band size: 130 kDa

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