

Anti-Bcr Picoband Antibody
Catalog # ABO12673**Specification**

Anti-Bcr Picoband Antibody - Product Information

Application	WB
Primary Accession	P11274
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Breakpoint cluster region protein(BCR) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Bcr Picoband Antibody - Additional Information

Gene ID 613

Other Names

Breakpoint cluster region protein, 2.7.11.1, Renal carcinoma antigen NY-REN-26, BCR, BCR1, D22S11

Calculated MW

142819 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cell junction, synapse, postsynaptic cell membrane, postsynaptic density .

Protein Name

Breakpoint cluster region protein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human Bcr recombinant protein (Position: M1-A100). Human Bcr shares 94% amino acid (aa) sequence identity with mouse Bcr.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Bcr Picoband Antibody - Protein Information

Name BCR ([HGNC:1014](#))

Synonyms BCR1, D22S11

Function

Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein (GAP) domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed: [7479768](http://www.uniprot.org/citations/7479768), PubMed: [1903516](http://www.uniprot.org/citations/1903516), PubMed: [17116687](http://www.uniprot.org/citations/17116687)). The central Dbl homology (DH) domain functions as guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (PubMed: [7479768](http://www.uniprot.org/citations/7479768), PubMed: [23940119](http://www.uniprot.org/citations/23940119)). The amino terminus contains an intrinsic kinase activity (PubMed: [1657398](http://www.uniprot.org/citations/1657398)). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF1-directed motility and phagocytosis through the modulation of RAC1 activity (PubMed: [17116687](http://www.uniprot.org/citations/17116687)). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte differentiation (PubMed: [23940119](http://www.uniprot.org/citations/23940119)).

Cellular Location

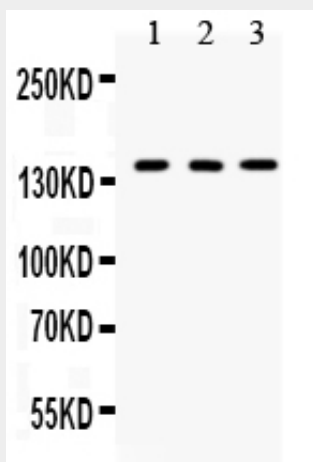
Postsynaptic density {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, axon {ECO:0000250|UniProtKB:Q6PAJ1}. Synapse {ECO:0000250|UniProtKB:F1LXF1}

Anti-Bcr Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Bcr Picoband Antibody - Images



Western blot analysis of Bcr expression in mouse testis extract (lane 1), NRK whole cell lysates (lane 2) and JURKAT whole cell lysates (lane 3). Bcr at 143KD was detected using rabbit anti- Bcr Antigen Affinity purified polyclonal antibody (Catalog # ABO12673) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-Bcr Picoband Antibody - Background

The breakpoint cluster region protein (BCR) is a protein that in humans is encoded by the BCR gene. A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromosome, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 breakpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 breakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac. Two transcript variants encoding different isoforms have been found for this gene.