

**Phospho-Bcr-Y177 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AE1006b**

**Specification**

**Phospho-Bcr-Y177 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P11274</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Concentration	1mg/ml
Isotype	Rabbit IgG
Calculated MW	142819

**Phospho-Bcr-Y177 Antibody - Additional Information**

**Gene ID 613**

**Other Names**

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

**Target/Specificity**

The antibody was affinity-purified from rabbit antiserum using epitope-specific phosphopeptide column, and the antibody against non-phosphopeptide was removed using non-phosphopeptide column corresponding to the phosphorylation site.

**Dilution**

WB~~1:500~1:1000  
IHC~~1:50~1:100

**Format**

affinity Purified IgG, in PBS, 0.02% sodium azide and 50% glycerol.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Phospho-Bcr-Y177 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Phospho-Bcr-Y177 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:<a href="http://www.uniprot.org/citations/17116687" target="\_blank">17116687</a>, PubMed:<a href="http://www.uniprot.org/citations/1903516" target="\_blank">1903516</a>, PubMed:<a href="http://www.uniprot.org/citations/7479768" target="\_blank">7479768</a>). 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:<a href="http://www.uniprot.org/citations/23940119" target="\_blank">23940119</a>, PubMed:<a href="http://www.uniprot.org/citations/7479768" target="\_blank">7479768</a>). The amino terminus contains an intrinsic kinase activity (PubMed:<a href="http://www.uniprot.org/citations/1657398" target="\_blank">1657398</a>). 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:<a href="http://www.uniprot.org/citations/17116687" target="\_blank">17116687</a>). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte differentiation (PubMed:<a href="http://www.uniprot.org/citations/23940119" target="\_blank">23940119</a>).

## 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}

## Phospho-Bcr-Y177 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](#)

## Phospho-Bcr-Y177 Antibody - Images

