

**KD-Validated Anti-BCR Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1983****Specification****KD-Validated Anti-BCR Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P11274</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 143 kDa, observed, 160 kDa
Gene Name	KDa
Aliases	BCR BCR; BCR Activator Of RhoGEF And GTPase; D22S662; D22S11; BCR1; CML; PHL; ALL; BCR, RhoGEF And GTPase Activating Protein; Breakpoint Cluster Region Protein; Renal Carcinoma Antigen NY-REN-26; Breakpoint Cluster Region; EC 2.7.11.1; BCR/FGFR1 Chimera Protein; FGFR1/BCR Chimera Protein
Immunogen	A synthesized peptide derived from human Bcr

**KD-Validated Anti-BCR Rabbit Monoclonal Antibody - Additional Information**

Gene ID	613
<b>Other Names</b>	
Breakpoint cluster region protein, 2.7.11.1, Renal carcinoma antigen NY-REN-26, BCR ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1014" target="_blank">target="_blank"&gt;HGNC:1014</a> ), BCR1, D22S11	

**KD-Validated Anti-BCR Rabbit Monoclonal 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:[17116687](http://www.uniprot.org/citations/17116687), PubMed:[1903516](http://www.uniprot.org/citations/1903516), PubMed:[7479768](http://www.uniprot.org/citations/7479768)). 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

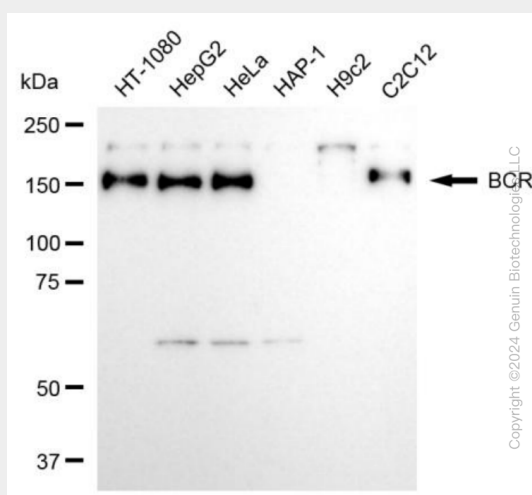
Postsynaptic density {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, axon {ECO:0000250|UniProtKB:Q6PAJ1}. Synapse {ECO:0000250|UniProtKB:F1LXF1}

### KD-Validated Anti-BCR Rabbit Monoclonal Antibody - Protocols

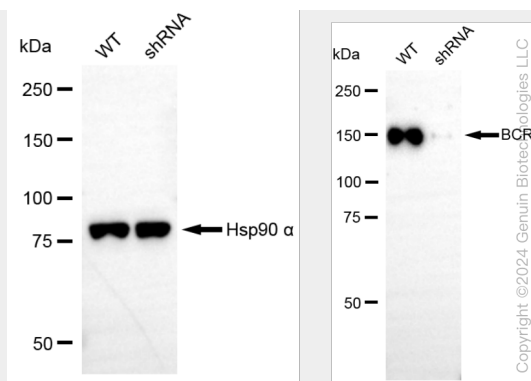
Provided below are standard protocols that you may find useful for product applications.

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

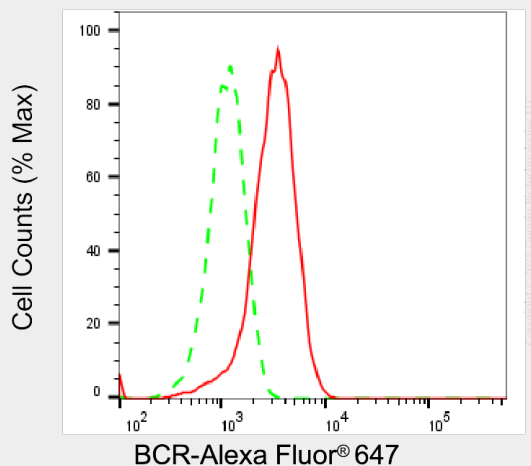
### KD-Validated Anti-BCR Rabbit Monoclonal Antibody - Images



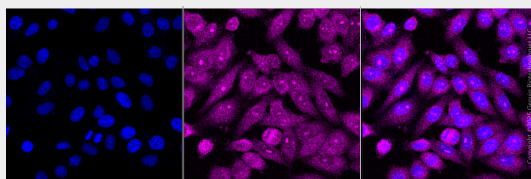
Western blotting analysis using anti-BCR antibody (Cat#AGI1983). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BCR antibody (Cat#AGI1983, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-BCR antibody (Cat#AGI1983). BCR expression in wild-type (WT) and BCR shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BCR antibody (Cat#AGI1983, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of BCR expression in HepG2 cells using anti-BCR antibody (Cat#AGI1983, 1:2,000). Green, isotype control; red, BCR.



Immunocytochemical staining of HepG2 cells with anti-BCR antibody (Cat#AGI1983, 1:1,000). Nuclei were stained blue with DAPI; BCR was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.