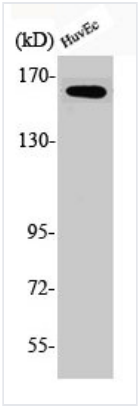
# BCR Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | BCR, Polyclonal Antibody |
| **Full Product Name** | Phospho-BCR (Y177) Antibody |
| **Product Gene Name** | anti-BCR antibody |
| **Product Synonym Names** | BCR; BCR1; D22S11; Breakpoint cluster region protein; Renal carcinoma antigen NY-REN-26 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Molecular Weight** | 142,819 Da |
| **Chromosome Location** | Chromosome: 22; NC_000022.10 (23522552..23660224). Location: 22q11.23 |
| **OMIM** | 151410 |
| **3D Structure** | ModBase 3D Structure for P11274 |
| **Immunogen** | Synthesized peptide derived from human Bcr around the phosphorylation site of Y177. |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **Product Categories/Family for anti-BCR antibody** | Signal Transduction |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-BCR antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-BCR antibody** | WB: 1:500-1:2000<br>ELISA: 1:10000 |
| **Related Product Information for anti-BCR antibody** | MBS7115722 is an antibody targeting BCR. Also known as Phospho-BCR (Y177) Antibody. Reactive in Human, Mouse. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-BCR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-BCR antibody**
Western Blot analysis of HuvEc cells using Phospho-Bcr (Y177) Polyclonal Antibody

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BCR. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 82546843 |
| **NCBI GeneID** | 613 |
| **NCBI Accession #** | NP_004318.3 |
| **UniProt Primary Accession #** | P11274 |
| **UniProt Secondary Accession #** | P78501; Q12842; Q4LE80; Q6NZI3 |
| **UniProt Related Accession #** | P11274 |
| **GenBank Nucleotide #** | NM_004327.3 |
| **NCBI Official Full Name** | breakpoint cluster region protein isoform 1 |
| **NCBI Official Synonym Full Names** | breakpoint cluster region |
| **NCBI Official Symbol** | BCR |
| **NCBI Official Synonym Symbols** | ALL; CML; PHL; BCR1; D22S11; D22S662 |
| **UniProt Protein Name** | Breakpoint cluster region protein |
| **UniProt Synonym Protein Names** | Renal carcinoma antigen NY-REN-26 |
| **Protein Family** | Bicyclomycin resistance protein |
| **UniProt Gene Name** | BCR |
| **UniProt Synonym Gene Names** | BCR1; D22S11 |
| **UniProt Entry Name** | BCR_HUMAN |
| **NCBI Protein Information** | breakpoint cluster region protein; BCR/FGFR1 chimera protein; FGFR1/BCR chimera protein; renal carcinoma antigen NY-REN-26 |
| **NCBI Summary for BCR** | 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. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for BCR** | Bcr: a protein with serine/threonine protein kinase activity and is a GTPase-activating protein (GAP) for RAC1 and CDC42. The amino-terminal region of Bcr contains an oligomerization domain, a serine/threonine kinase domain and a region that binds SH2 domains. The middle of the protein has a PH domain and a region of sequence similarity to the guanine nucleotide exchange factors for the Rho family of GTP binding proteins. The carboxy-terminal region promotes the exchange of RAC or CDC42-bound GDP by GTP, thereby activating them. A breakpoint cluster region protein that participates in a t(9;22)(q34;q11) chromosomal translocation that produces a BCR-ABL oncogene responsible for chronic myeloid leukemia (CML), acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL). The function of wild type Bcr in cells remains unclear. PDGF receptor may use Bcr as a downstream signaling mediator. Tyr177 of human Bcr, phosphorylated in the Bcr-Abl fusion protein, provides a docking site for Gab2 and GRB2, and is important in the transforming activity of Bcr-Abl. Sequence variants of the Bcr protein may be associated with bipolar disorder. Two alternatively spliced isoforms of the human protein have been reported.<br><br>Protein type: Kinase, protein; GAPs; GAPs, Rac/Rho; Oncoprotein; GEFs, Rac/Rho; Protein kinase, atypical; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); ATYPICAL group; BCR family<br><br>Chromosomal Location of Human Ortholog: 22q11.23<br><br>Cellular Component: postsynaptic membrane; protein complex; membrane; postsynaptic density; cytosol; cell junction<br><br>Molecular Function: protein serine/threonine kinase activity; Rho guanyl-nucleotide exchange factor activity; protein binding; enzyme binding; protein-tyrosine kinase activity; kinase activity; ATP binding; GTPase activator activity<br><br>Biological Process: inner ear morphogenesis; peptidyl-tyrosine phosphorylation; regulation of cell cycle; protein amino acid autophosphorylation; platelet-derived growth factor receptor signaling pathway; response to lipopolysaccharide; signal transduction; protein amino acid phosphorylation; negative regulation of neutrophil degranulation; regulation of small GTPase mediated signal transduction; small GTPase mediated signal transduction; positive regulation of phagocytosis; negative regulation of inflammatory response; brain development; actin cytoskeleton organization and biogenesis; neuromuscular process controlling balance; negative regulation of cell migration<br><br>Disease: Leukemia, Acute Lymphoblastic; Leukemia, Chronic Myeloid |
| **Research Articles on BCR** | **1.** miR-29b may function as a tumor suppressor by targeting ABL1 and BCR/ABL1. |
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