BCR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BCR, Polyclonal Antibody
Full Product Name	BCR Antibody
Product Gene Name	anti-BCR antibody
Product Synonym Names	ALL; CML; PHL; BCR1; D22S11; D22S662
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total BCR protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
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	Synthetic peptide corresponding to a region derived from internal residues of human breakpoint cluster region
Product Categories/Family for anti-BCR antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-BCR antibody	Immunohistochemistry (IHC)
Application Notes for anti-BCR antibody	IHC: 1:25-1:100
Related Product Information for anti-BCR antibody	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
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.
Searchable Terms for BCR purchase	MBS8590493 is an antibody targeting BCR. Also known as BCR Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

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]

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. 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 Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: postsynaptic membrane; protein complex; membrane; postsynaptic density; cytosol; cell junction 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 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 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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