

## Recombinant Human BCR

**Cat. No.** BCR-26665TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment, corresponding to N terminal amino acids 1-695 of Human Bcr expressed by baculovirus in Sf9 insect cells using an N-terminal tag, 120kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-695 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 25% Glycerol, 50mM Sodium chloride, 50mM Tris HCl, 0.25mM DTT, 0.1mM PMSF, pH 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | BCR breakpoint cluster region [ Homo sapiens ]                                                                                                                                                                                                                             |
| <b>Official Symbol</b>     | BCR                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | BCR; breakpoint cluster region; BCR1, D22S11; breakpoint cluster region protein; ALL; CML; D22S662; PHL;                                                                                                                                                                   |
| <b>Gene ID</b>             | 613                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_004327                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_004318                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 151410                                                                                                                                                                                                                                                                     |
| <b>Uniprot ID</b>          | P11274                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 22q11                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; Pathways in cancer, organism-specific biosystem; Regulation of RAC1 activity, organism-specific biosystem; Regulation of RhoA activity, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; GTPase activator activity; Rac GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity;                                                                                                         |

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