

Product datasheet for TP313247M

BCR (NM_021574) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human breakpoint cluster region (BCR), transcript variant 2, 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC213247 representing NM_021574
Red=Cloning site Green=Tags(s)

MVDPVGF AEAWKAQFPDSEPPRMELRSVGDIEQELERCKASIRRLQEVEVNQERFRMIYLQTLAKEKKS
 DRQRWGFRAAQAPD GASEPRASASRPQAPADGADPPPAEPEARP DGE GSPGKARPGTARRPGAAASG
 ERDDRGPPASVAALRSNFERIRKGGHQP GADAEKPFYVNVFHHERGLVKVNDKEVSDRISSLG SQAMQM
 ERKKSQHGAGSSVGDASRPPYRGRSSESSCGVDGDYEDAE LNPRFLKDNLIDANGSRPPWPPLEYQPYQ
 SIYVGGMMEGEGKGPLLRSQSTSEQEKRLTWPRRSYSPRSFEDCGGGYTPDCSSNENLTSSEEDFSSGQS
 SRVSPSPTTYRMFRDKSRSPSQNSQSFSSSPPTPQCHKRHRHCPVWVSEATIVGVRKTGQIWPNDGEG
 AFHGDADGSGFTPPGYGCAADRAEEQRRHQDGLPYIDDSPSSPHLSSKGRGSRDALVSGALESTKASEL
 DLEKGLEMRKWVLSGILASEETYLSHLEALLPMKPLKAAATTSQPVLTSSQIETIFFKVP ELYEIHKEF
 YDGLFPRVQQWSHQQRVGD L FQKLASQLGVYRAFVDNYGVAMEMA EKCQANAQFAEISENLRARSNKDA
 KDPTTKNSLETLLYKPVDRVTRSTLVLDLLKHTPASHPDHPLLQDALRISQNFLLSINEEITPRRQSM T
 VKKGEHRQLLKDSFMVELVEGARKLRHVLF TDL LCTK LKKQSGGKTQQYDCKWYIPLTDL SFQMVDEL
 EAVPNILVPDEELDALKIKISQIKNDIQREKRANKGSKATERLKKK LSEQESLLLMSPSMAFRVHSRN
 GKSYTFLISSDYERA EWRENIREQQKCFRSFSLTSVELQMLTNSCVKLQTVHSIPLTINKEDDESPGLY
 GFLNVIVHSATGFKQSSNLYCTLEVDSFGYFVNKAKTRVYRDTAEPNWNELDPQALQDRDWQRTVIAMNG
 IEVKLSVKFNSREFSLKRMP SRKQTGVFGVKIAVVTKRERSKVPYIVRQCVEEIERRGMEEVGIYRVSGV
 ATDIQALKA AFDVNNKDVSVMMSEMDVNAIAGTLKLYFRELPEPLFTDEFYPNFAEGIALSDPVAKESCM
 LNLLLSLPEANLLTFLFLDHLKRVAEKEAVNKMSLHNLATVFGPTLLRPSEKESKLPANPSQPITMTDS
 WSLEVMSQVQVLLYFLQLEAIPAPDSKRQSILFSTEV

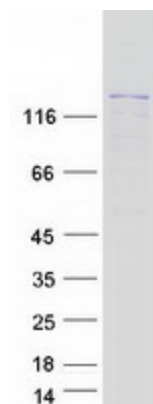
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 137.5 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining



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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_067585</u>
Locus ID:	613
UniProt ID:	<u>P11274</u>
RefSeq Size:	6795
Cytogenetics:	22q11.23
RefSeq ORF:	3681
Synonyms:	ALL; BCR1; CML; D22S11; D22S662; PHL
Summary:	<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 unregulated tyrosine kinase activity of BCR-ABL1 contributes to the immortality of leukaemic cells. The BCR protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac and other kinases. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2020]</p>
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chronic myeloid leukemia, Pathways in cancer

Product images:

Coomassie blue staining of purified BCR protein (Cat# [TP313247]). The protein was produced from HEK293T cells transfected with BCR cDNA clone (Cat# [RC213247]) using MegaTran 2.0 (Cat# [TT210002]).