

Recombinant Human BCAR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BCAR1-4521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BCAR1 MS Standard C13 and N15-labeled recombinant protein (NP_055382) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the Crk-associated substrate (CAS) family of scaffold proteins, characterized by the presence of multiple protein-protein interaction domains and many serine and tyrosine phosphorylation sites. The encoded protein contains a Src-homology 3 (SH3) domain, a proline-rich domain, a substrate domain which contains 15 repeat of the YxxP consensus phosphorylation motif for Src family kinases, a serine-rich domain, and a bipartite Src-binding domain, which can bind both SH2 and SH3 domains. This adaptor protein functions in multiple cellular pathways, including in cell motility, apoptosis and cell cycle control. Dysregulation of this gene can have a wide range of effects, affecting different pathways, including cardiac development, vascular smooth muscle cells, liver and kidney function, endothelial migration, and cancer.
Molecular Mass	93.4 kDa
AA Sequence	MNHLNVLAKALYDNVAESPDELSFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGIVP GNRLKILVGM YDKKPAGPGSGPPATPAQPQPGLHAPAPPASQYTPMLPNTYQPQP

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DSVYLVPTPSKAQQGLYQVPGPSPQFQSPPAKQTSTFSKQTPHHPFPNPATDLYQV
 PPGPGGPAQDIYQVPPSAGMGHDIYQVPPSMDTRSWEGTKPPAKVVVPTRVGQGY
 VYEEAAQPEQDEYDIPRHLLAPGPQDIYDVPPVRGLLPSQYGGQEVYDTPPMAVKGN
 GRDPLLEVYDVPPSVEKGLPPSNHHAVYDVPPSVSKDVPDGPLLREETYDVPPAFA
 KAKPFDPARTPLVLAAPPPDSPPAEDVYDVPPPAPDLYDVPPGLRRPGPGTLYDVP
 RERVLPPEVADGGVVDGSGVYAVPPPAEREAPAEGKRLSASSTGSTRSSQSASSLEV
 AGPGREPLELEVAVEALARLQQGVSATVAHLLDLASGATGSWRSPSEPQEPLVQ
 DLQAABAQVQSAVHELLEFARSAGVGNAAHTSDRALHAKLSRQLQKMEDVHQTLVAH
 GQALDAGRGGSGATLEDLDRLVACSRVPEDAKQLASFLHGNASLLFRRTKATAPG
 PEGGGTLHPNPTDKTSSIQSRPLPSPPKFTSQDSPDGQYENSEGGWMEDYDYVHL
 QGKEEFEKTQKELLEKGSITRQGKSQLELQQLKQFERLEQEVSRPIDHDLANWTPA
 QPLAPGRTGGLGPSDRQLLLFYLEQCEANLTTLTNAVDAFFTAVATNQPPKIFVAHS
 KFVILSAHKLFIGDTLSRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAAALQYPSP
 SAAQDMVERVKELGHSTQQFRRVLGQLAAATRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name BCAR1 breast cancer anti-estrogen resistance 1 [Homo sapiens (human)]

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Official Symbol	BCAR1
Synonyms	BCAR1; breast cancer anti-estrogen resistance 1; breast cancer anti-estrogen resistance protein 1; CAS; Cas scaffolding protein family member 1; CASS1; Crk associated substrate; Crkas; P130Cas; Crk-associated substrate p130Cas; CAS1; CRKAS; FLJ12176; FLJ45059;
Gene ID	9564
mRNA Refseq	NM_014567
Protein Refseq	NP_055382
MIM	602941
UniProt ID	P56945
SDS-PAGE	