Recombinant Mouse Bcar3 Protein, Myc/DDK-tagged

Cat. No. Bcar3-1841M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length breast cancer anti-estrogen resistance 3 (Bcar3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as an adapter protein downstream of several growth factor receptors to promote cell proliferation, migration, and redistribution of actin fibers. Specifically involved in INS/insulin signaling pathway by mediating MAPK1/ERK2-MAPK3/ERK1 activation and DNA synthesis. Promotes insulin-mediated membrane ruffling. In response to vasoconstrictor peptide EDN1, involved in the activation of RAP1 downstream of PTK2B via interaction with phosphorylated BCAR1. Inhibits cell migration and invasion via regulation of TGFB-mediated matrix digestion, actin filament rearrangement, and inhibition of invadopodia activity. May inhibit TGFB-SMAD signaling, via facilitating BCAR1 and SMAD2 and/or SMAD3 interaction. Regulates EGF-induced DNA synthesis. Required for the maintenance of ocular lens morphology and structural integrity, potentially via regulation of focal adhesion complex signaling. Acts upstream of PTPRA to regulate the localization of BCAR1 and PTPRA to focal adhesions, via regulation of SRC-mediated phosphorylation of PTPRA. Positively regulates integrin-induced tyrosine phosphorylation of BCAR1. Acts as a guanine nucleotide exchange factor (GEF) for small GTPases RALA, RAP1A and RRAS. However, in a contrasting study, lacks GEF activity towards RAP1.

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Molecular Mass	92.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Bcar3 breast cancer anti-estrogen resistance 3 [Mus musculus (house mouse)]
Official Symbol	Bcar3
Synonyms	BCAR3; breast cancer anti-estrogen resistance 3; breast cancer anti-estrogen resistance protein 3; p130Cas-binding protein AND-34; AND-34; AI131758
Gene ID	29815
mRNA Refseq	NM_013867
Protein Refseq	NP_038895
UniProt ID	Q9QZK2

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