

Product Name: KD-Validated BCAR1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01554**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 93.4kDa

Antigen Information

Gene Name	BCAR1
Alternative Names	BCAR1; BCAR1 Scaffold Protein, Cas Family Member; CASS1; CAS; Cas Scaffold Protein Family Member 1; CRKAS; Breast Cancer Anti-Estrogen Resistance Protein 1; BCAR1, Cas Family Scaffold Protein; P130Cas; Breast Cancer Anti-Estrogen Resistance 1; Crk-Associated Substrate P130Cas; Crk-Associated Substrate; CRK-Associated Substrate; P130CAS; P130cas; Crkas; CAS1
Gene ID	9564.0
SwissProt ID	P56945
Immunogen	A synthesized peptide derived from human BCAR1

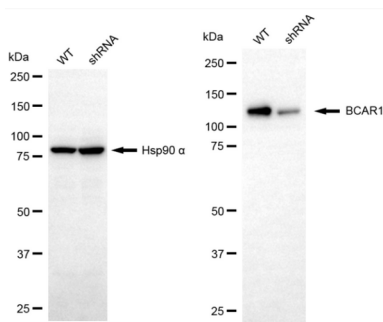
Background

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. [provided by RefSeq, Sep 2017]

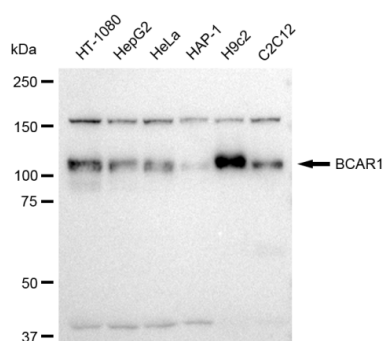
Research Area

Signal Transduction,Cancer

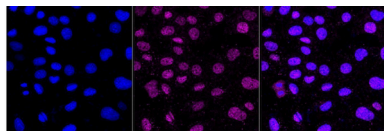
Image Data



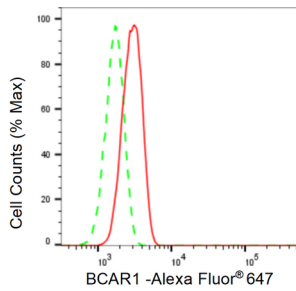
Western blotting analysis using BCAR1 antibody (KVA01554). BCAR1 expression in wild type (WT) and BCAR1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with BCAR1 antibody (KVA01554, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using BCAR1 antibody (KVA01554). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with BCAR1 antibody (KVA01554, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with BCAR1 antibody (KVA01554, 1:1,000). Nuclei were stained blue with DAPI; BCAR1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of BCAR1 expression in H9c2 cells using BCAR1 antibody (KVA01554, 1:2,000). Green, isotype control; red, BCAR1.