[KD Validated] Anti-BCR Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020689

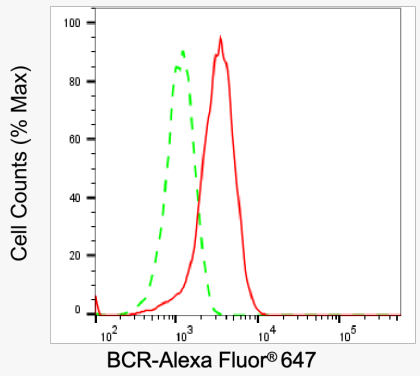
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	29E06S36
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Bcr
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-BCR Rabbit mAb [29E06S36] is for research use only and not for use in diagnostic or therapeutic procedures.

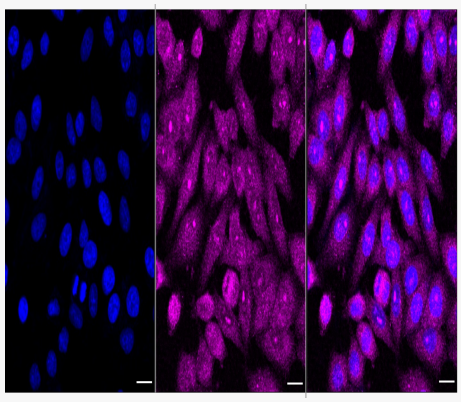
Protein Information

Synonyms	BCR; BCR Activator Of RhoGEF And GTPase; D22S662; D22S11; BCR1; CML; PHL; ALL; BCR, RhoGEF And GTPase Activating Protein; Breakpoint Cluster Region Protein; Renal Carcinoma Antigen NY-REN-26; Breakpoint Cluster Region; EC 2.7.11.1; BCR/FGFR1 Chimera Protein; FGFR1/BCR Chimera Protein.
Calculated MW	Calculated MW: 143 kDa; Observed MW: 160 kDa
Uniprot ID	P11274
Gene ID	613
Background	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. [provided by RefSeq, Jul 2008]

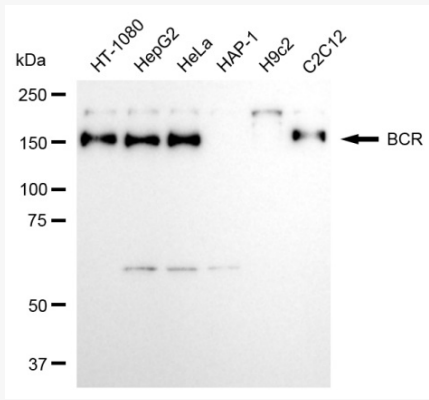
Validation Images



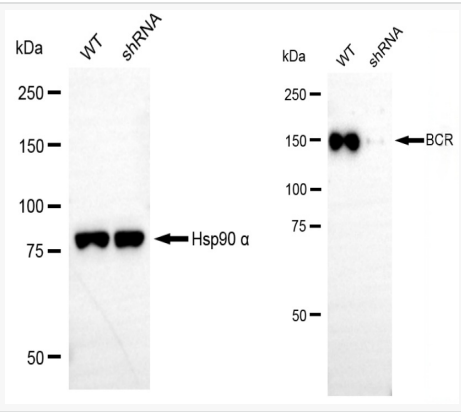
Flow cytometric analysis of BCR expression in HepG2 cells using BCR antibody (R020689, 1:2,000). Green, isotype control; red, BCR.



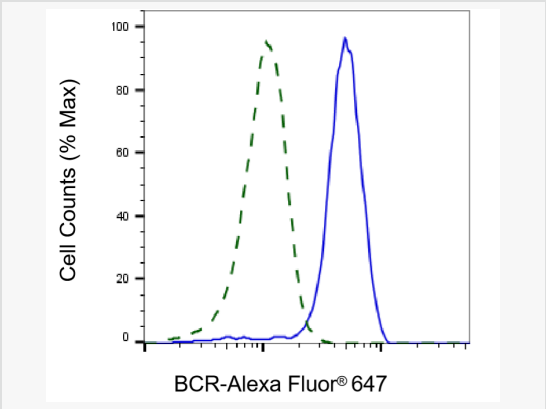
Immunocytochemical staining of HepG2 cells with BCR antibody (R020689, 1:1,000) . Nuclei were stained blue with DAPI; BCR was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



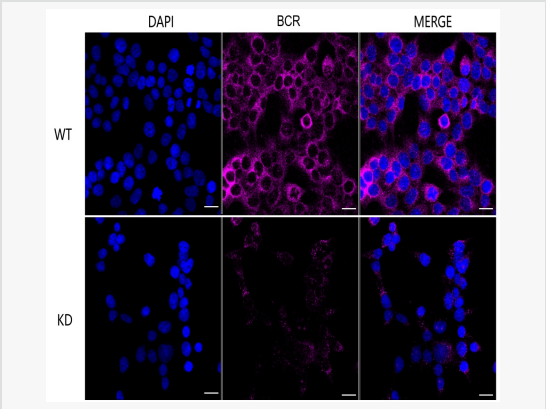
Western blotting analysis using BCR antibody (R020689). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with BCR antibody (R020689, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using BCR antibody (R020689). BCR expression in wild-type (WT) and BCR shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with BCR antibody (R020689, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Validation of BCR knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with BCR antibody (R020689, 1:2,000) and analyzed using BD flow cytometer.



Immunocytochemical staining of HeLa cells using BCR antibody (R020689, 1:1,000), Top panel: wild-type (WT); Bottom panal: BCR shRNA knockdown (KD). Nuclei were stained blue with DAPI; was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.