

KD-Validated Anti-BCR Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1983

Product Information

Application	WB, FC, ICC
Primary Accession	P11274
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6945
Calculated MW	142819
Gene Name	BCR
Aliases	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
Immunogen	A synthesized peptide derived from human Bcr

Additional Information

Gene ID	613
Other Names	Breakpoint cluster region protein, 2.7.11.1, Renal carcinoma antigen NY-REN-26, BCR (HGNC:1014), BCR1, D22S11

Protein Information

Name	BCR (HGNC:1014)
Synonyms	BCR1, D22S11
Function	Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein (GAP) domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed: 17116687 , PubMed: 1903516 , PubMed: 7479768). The central Dbl homology (DH) domain functions as guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (PubMed: 23940119 , PubMed: 7479768). The amino terminus contains an intrinsic kinase activity (PubMed: 1657398). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF1-directed motility and phagocytosis through the modulation of RAC1 activity (PubMed: 17116687). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte

differentiation (PubMed:[23940119](#)).

Cellular Location

Postsynaptic density {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, axon {ECO:0000250|UniProtKB:Q6PAJ1}. Synapse {ECO:0000250|UniProtKB:F1LXF1}

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