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[Marker Primary Antibody]

Rabbit Anti-Bcr/AF647 Conjugated antibody

Catalog Number: SL2747R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Bcr/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Bcr (1225-1271aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Cow,Horse,Rabbit)
Background:	background: The breakpoint cluster region protein (Bcr) is best know to be involved in genomic translocation with fusion partner Abl (Cbr-Abl) causing chronic myelogenous leukemia (CML). This 160 kDa protein contains a serine/threonine kinase domain, an SH2 binding domain, a GTP/GDP exchange domain and a C-term domain which functions as a GTPase activating protein for p21rac and CDC42. Additionally, Bcr is involved in signal transduction and can down regulate Ras mediated cell signaling. **Function:** GTPase-activating protein for RAC1 and CDC42. Promotes the exchange of RAC or CDC42-bound GDP by GTP, thereby activating them. Displays serine/threonine kinase activity. **Subunit:** Homotetramer. Interacts with PDZK1. May interact with CCPG1. Interacts with FES/FPS, ABL1, PIK3R1 and GRB2. Interacts with HCK. **Subcellular Location:** Cytoplasm. **Post-translational modifications:** Autophosphorylated. Phosphorylated by FES/FPS on tyrosine residues, leading to down-regulation of the BCR kinase

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	activity. Phosphorylation at Tyr-177 by HCK is important for interaction with GRB2. DISEASE: Note=A chromosomal aberration involving BCR is a cause of chronic myeloid leukemia. Translocation t(9;22)(q34;q11) with ABL1. The translocation produces a BCR-ABL found also in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL). **Similarity:** Contains 1 C2 domain. Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 Rho-GAP domain. **Database links:** **Entrez Gene:** 613 Human Omim: 151410 Human **SwissProt:** P11274 Human **Unigene:** 517461 Human **Unigene:** 715409 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.