

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BCR in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BCR Lys174-Asp331 Accession # P11274
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

BCR (Breakpoint cluster region protein) is a novel 155-165 kDa Ser/Thr protein kinase. It is found in fibroblasts and hematopoietic cells, interacts with 14-3-3, and serves as a natural inhibitor of the growth factor-associated c-Abl nonreceptor protein tyrosine kinase. Human BCR is 1271 amino acids (aa) in length. It contains a coiled-coil dimerization motif (aa 28-68), a Ser/Thr kinase region (aa 176-426), one DH domain (aa 498-691) and a Rho-Gap region (aa 1054-1248). The N-terminal aa 1-902 and 1-927 are known to contribute to the BCR-ABL oncoprotein. BCR likely forms homodimers and 650 kDa homotetramers. An alternate start site exists at Met498, while other isoforms show a deletion of aa 961-1004, plus a 61 and 37 aa substitution for aa 1-488. Over aa 1-426, human BCR is 89% aa identical to mouse BCR.

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