AB-PK540

Bcr-pY644 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Bcr

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

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Target Protein

Name Long:	Breakpoint cluster region protein
Alias:	ALL; BCR; BCR1; Breakpoint cluster region; CML; D22S11; D22S662; PHL; Renal carcinoma antigen NY-REN-26; FLJ16453; CCDS13806.1; Q12843; Q12845; Q12848; Q14020; Q13846; ENSG00000186716
UniProt ID:	P11274
Sequence Predicted Mass (KDa):	142.819 (1271 AA; P11274); 137.729 (1227 AA; P11274-2)
Observed SDS-PAGE Mass (KDa):	150-170

Immunogen

Antibody Immunogen Source:	Human Bcr sequence peptide Cat. No.: PE-04AIO99
Antibody Immunogen Sequence:	TLL(pY)KPV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues T641 to V647; In the Rho-GEF domain. One of the main in vivo phosphorylation sites in Bcr.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-644

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141202
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting | Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No cross-reactivities with other proteins in A431 and Jurkat cells, and sea star oocytes, but a weak 48 KDa cross-reactive protein was detected in A431 cells.