

AB-PK550

Btk-pY223+pY225 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase Btk



KINEXUS

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Target Protein

Name Long:	Bruton's agammaglobulinemia tyrosine kinase
Alias:	Agammaglobulinaemia tyrosine kinase; AGMX1; ATK; B cell progenitor kinase; BPK; Bruton agammaglobulinemia tyrosine kinase; EMB; IMD1; XLA; AT; ATK; BPK; XLA; IMD1; AGMX1; PSCTK1; MGC126261; MGC126262; RP1-164F3_2; XLA; ENSG00000010671
UniProt ID:	Q06187
Sequence Predicted Mass (KDa):	79.937 (693 AA; Q06187-2); 76.281 (659 AA; Q06187)
Observed SDS-PAGE Mass (KDa):	75-80

Immunogen

Antibody Immunogen Source:	Human Btk sequence peptide Cat. No.: PE-04ACL90
Antibody Immunogen Sequence:	VAL(pY)D(pY)M(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues V220 to M226; In the SH3_1 domain
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-223+Tyr-225

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 multipепptide 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:	0.3 mg/ml
Lot Number:	141003
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:	Strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Very weak immunoreactivity of a target-sized protein by Western blotting in Jurkat and HEK-293 cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No cross-reactive proteins evident in Jurkat cells, HEK-293 cells and in sea star oocytes.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)