

AB-PK862

ZAP70-pY319 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ZAP70



KINEXUS

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Target Protein

Name Long:	Zeta-chain (TCR) associated protein-tyrosine kinase, 70 kDa
Alias:	SRK; Syk-related tyrosine kinase; ZA70; ZAP-70
UniProt ID:	P43403
Sequence Predicted Mass (kDa):	69.872 (619 AA; P43403); 55.873 (493 AA; P43403-3); 35.647 (312 AA; P43403-2)
Observed SDS-PAGE Mass (kDa):	65-75

Immunogen

Antibody Immunogen Source:	Human ZAP70 sequence peptide Cat. No.: PE-04ALM99
Antibody Immunogen Sequence:	ESP(pY)SDP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E316 to P322; In the region between the SH2 and kinase catalytic domains. One of the major in vivo sites of phosphorylation in ZAP70.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-319

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:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in A431 cells, except EGF increases 33 KDa cross-reactive protein signal. A 32 KDa cross-reactive protein is also increased during meiosis in maturing 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)