

# AB-PK669

## JAK3-pY980+pY981 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase JAK3



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Janus protein-tyrosine kinase 3
<b>Alias:</b>	JAK-3; JAK3_HUMAN; JAKL; Janus kinase 3; Kinase Jak3; Leukocyte janus kinase; LJAK; L-JAK; CCDS12366.1; ENSG00000105639
<b>UniProt ID:</b>	P52333
<b>Sequence Predicted Mass (KDa):</b>	125.099 (1124 AA; P52333); 121.268 (1094 AA; P52333-2); 68.279 (619 AA; P52333-4)
<b>Observed SDS-PAGE Mass (KDa):</b>	110-125

### Immunogen

<b>Antibody Immunogen Source:</b>	Human JAK3 sequence peptide Cat. No.: PE-04ARL85
<b>Antibody Immunogen Sequence:</b>	DKD(pY)(pY)VVRE(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues D977 to E985; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Tyr-980+Tyr-981

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	141003
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Medium immunoreactivity with immunogen peptide on dot blots. Strong immunoreactivity with recombinant human JAK3 on protein dot blots.
<b>Overall Antibody Specificity:</b>	High-very high selectivity
<b>Antibody Cross Reactivities:</b>	Medium-weak immunoreactivity on protein dot blots with recombinant human JAK1, JAK2 and TYK2. No significant cross-reactive proteins detected in HepG2 and Jurkat cells and in sea star oocytes, except for a ~26 KDa cross-reactive protein in the HepG2 and Jurkat cells, and a ~40 KDa strongly cross-reactive protein 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)