

AB-PK667

JAK2-pY1007+pY1008 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase JAK2



KINEXUS

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Target Protein

Name Long:	Janus protein-tyrosine kinase 2
Alias:	JAK-2; Janus kinase 2; JTK10; Kinase Jak2 ; JAK2_ENST00000381652; JAK2_ENST00000381652; CCDS6457; A8K910; A9QVL8; B4DYV1; Q506Q0; Q52R86; Q8IXP2; ENSG00000096968
UniProt ID:	O60674
Sequence Predicted Mass (KDa):	130.674 (1132 AA; O60674)
Observed SDS-PAGE Mass (KDa):	125-135

Immunogen

Antibody Immunogen Source:	Human JAK2 sequence peptide Cat. No.: PE-04ABZ95
Antibody Immunogen Sequence:	KE(pY)(pY)KVKE(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K1005 to E1012; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1007+Tyr-1008

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 multipеп 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:	0.5 / 0.16 mg/ml
Lot Number:	141017 / 160301
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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human JAK2 on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Very weak immunoreactivity of a target-sized protein by Western blotting in MCF7 cells.
Overall Antibody Specificity:	Medium selectivity
Antibody Cross Reactivities:	Strongly immunoreactivity on protein dot blots with recombinant human JAK3 and TYK2, which feature similar phosphosite sequences. No significant cross-reactive proteins detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells and insulin-treated MCF7 cells, when these cells were homogenized in SDS-PAGE sample buffer. A strong background >75 KDa in insulin-treated MCF7 cells was observed.

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)