

AB-PK846

TYK2-pY292 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase TYK2



KINEXUS

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Target Protein

Name Long:	Protein-tyrosine kinase 2 (Jak-related)
Alias:	JTK1; Kinase Tyk2; Tyrosine kinase 2; CCDS12236.1; ENSG00000105397
UniProt ID:	P29597
Sequence Predicted Mass (kDa):	133.650 (1187 AA; P29597)
Observed SDS-PAGE Mass (kDa):	130-140

Immunogen

Antibody Immunogen Source:	Human TYK2 sequence peptide Cat. No.: PE-04AQJ99
Antibody Immunogen Sequence:	EPA(pY)IRD(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E289 to D295; In the N-terminal half of the kinase. This is the major in vivo site of phosphorylation of Tyk2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-292

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:	0.75 / 1.0 mg/ml
Lot Number:	150305 / 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
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium to strong immunoreactivity of a target-sized protein by Western blotting in HepG2 cells, and more weakly in MCF7 cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431 cells, but strong ~75 KDa proteins were detected in MCF7 and HepG2 cells, and ~65 and 80 KDa proteins that were inducible with insulin were also strong in MCF7 cells.

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)