

AB-PK884

JAK1-pY1034+pY1035 Antibody

Phosphosite-specific rabbit polyclonal antibody for JAK1



KINEXUS

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Janus protein-tyrosine kinase 1
Protein Alias:	EC 2.7.10.2; JAK1A; Janus kinase 1
UniProt ID:	P23458
Protein Molecular Mass:	133,277 Da (1154 AA; P23458)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human JAK1
Antibody Immunogen Sequence:	DKE(pY)(pY)TVK(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues D1031 to K1038. Y1034+Y1035 phosphorylation appears to stimulate the phosphotransferase activity of JAK1. Phosphorylation of Y1034 and Y1035 have been observed to be the most frequent in JAK1 by mass spectrometry studies (≥ 175 and > 52 , respectively). JAK1 is known to be phosphorylated <i>in vitro</i> at Y1034 by JAK1, and JAK3, and at Y1035 by JAK1, and JAK3.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
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 these animals 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.
Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Rhesus Macaque Dog Rat Mouse Chicken Frog

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987