

AB-PK674

Kit-pS821+pY823 Antibody

Phosphosite-specific rabbit polyclonal antibody for Kit



KINEXUS

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Target Protein

Protein Name Long:	Mast/stem cell growth factor receptor protein-tyrosine Kit
Protein Alias:	CD117; C-kit; Kinase Kit; Mast/stem cell growth factor receptor precursor; PBT; SCFR; SL; V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene; V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homologue; ENSG00000157404
UniProt ID:	P10721
Protein Molecular Mass:	109,865 Da (976 AA; P10721); 109,451 Da (972 AA; P10721-2); 46,658 Da (413 AA; P10721-3)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Kit
Antibody Immunogen Sequence:	KND(pS)N(pY)VVKG(bA)C
Antibody Immunogen Description:	Corresponds to amino acid residues K818 to G827. S821 and Y823 phosphorylation stimulate phosphotransferase activity. Y823 phosphorylation also induces interaction with Grb2 and Grb7. These phosphosites are located in the kinase activation loop between catalytic subdomains VII and VIII. S821 phosphorylation is not frequently observed (≥ 1 reports) in high throughput mass spectrometry studies, where as Y283 appears to be more commonly observed (13 reports recorded in PhosphoSitePlus). Kit is known to be phosphorylated <i>in vitro</i> at Y823 by Kit.
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 μ g
Antibody Concentration:	1 mg/ml
Lot Numbers:	
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
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Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus macaque Dog Mouse Platypus Chicken Frog Zebra fish Tiger blowfish

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