

AB-PN501

ACTB-pY53 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human ACTB (Beta-actin)



KINEXUS

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Target Protein

Name Long:	Actin, cytoplasmic 1
Alias:	ACTB; actin, beta; Actin, cytoplasmic 1; Actin, cytoplasmic 1, N-terminally processed; beta actin; beta cytoskeletal actin; Beta-actin; PS1TP5-binding protein 1; PS1TP5BP1
UniProt ID:	P60709
Sequence Predicted Mass (KDa):	41.737 (375 AA; P60709)
Observed SDS-PAGE Mass (KDa):	42-45

Immunogen

Antibody Immunogen Source:	Human ACTB (Beta-actin) sequence peptide Cat. No.: PE-04AIB95
Antibody Immunogen Sequence:	KDS(pY)VGD(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K50 to D56; In the Actin domain. This is one of the major in vivo phosphorylation sites in actin.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-53

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 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 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:	1 mg/ml
Lot Number:	141024
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 vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Prominent immunoreactivities in FBS-treated Jurkat cells at 75, to 120 KDa range were detected. No other cross-reactive proteins were observed in Jurkat, HEK-293 and seastar 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 or contact us at 1-866-KINEXUS(546-3987)