

AB-PN502

ACTN1-pY246 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human ACTN1



KINEXUS

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Target Protein

Name Long:	Alpha-actinin-1
Alias:	actinin 1 smooth muscle; actinin, alpha 1; ACTN1; alpha-actinin 1; Alpha-actinin cytoskeletal isoform; Alpha-actinin-1; FLJ40884; FLJ54432; Non-muscle alpha-actinin-1
UniProt ID:	P12814
Sequence Predicted Mass (KDa):	107.141 (930 AA; P12814-4); 105.569 (914 AA; P12814-3); 103058 (892 AA; P12814-1); 102.709 (887 AA; P12814-2)
Observed SDS-PAGE Mass (KDa):	100-110

Immunogen

Antibody Immunogen Source:	Human ACTN1 sequence peptide Cat. No.: PE-04AIC99
Antibody Immunogen Sequence:	SSF(pY)HAF(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues S243 to F249; In the second CH domain. This is the major in vivo phosphorylation site in ACTN1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-246

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 multi-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:	150115
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerosal
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in FBS-treated A431 cells.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Cross-reacts with a 85 KDa cross-reactive protein in A431 cells. This antibody cross-reacts with CDK1, ERK1 and at least 3 other proteins in 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)