

AB-PN568

AML1-pT273 Antibody

Phosphosite-specific rabbit polyclonal antibody for RUNX1 (AML1). This phosphothreonine-site antibody is highly specific for phosphothreonine.

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Target Protein

Protein Name Long:	Runt-related transcription factor 1
Protein Alias:	Acute myeloid leukemia 1 protein; Aml1 oncogene; AMLCR1; CBFA2; CBF-alpha 2; Core-binding factor subunit alpha-2; Core-binding factor, alpha 2 subunit; Oncogene AML-1; PEA2-alpha B; PEBP2A2; PEBP2-alpha B; Polyomavirus enhancer binding protein 2 alpha B subunit; Polyomavirus enhancer-binding protein 2 alpha B subunit; RUN1; RUNX1; SL3/AKV core-binding factor alpha B subunit; SL3-3 enhancer factor 1 alpha B subunit
UniProt ID:	Q01196
Protein Molecular Mass:	48,737 Da (453 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human AML1
Antibody Immunogen Sequence:	VHPA(pT)PIS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues V269 to S276. T273 phosphorylation induces interaction with CBFB. This is a minor <i>in vivo</i> phosphorylation sites in AML1 (≥6 reports from high throughput mass spectrometry studies in PhosphoSitePlus). AML1 is known to be phosphorylated at this site <i>in vitro</i> by CDK1, CDK2, CDK6, ERK1, ERK2, and HIPK2.
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 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 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:	1 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 Chimpanzee Rhesus macaque Dog Rat Mouse Zebra fish

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