

AB-PN584

ERF-pT526 Antibody

Phosphosite-specific rabbit polyclonal antibody for ERF. This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	ETS domain-containing transcription factor ERF
Protein Alias:	Ets2 repressor factor; ETS-domain transcription factor ERF; PE2; PE-2
UniProt ID:	P50548
Protein Molecular Mass:	58,703 Da (548 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ERF
Antibody Immunogen Sequence:	CGGPL(pT)PRR
Antibody Immunogen Description:	Corresponds to amino acid residues G522 to R529. T526 phosphorylation inhibits ERF transcriptional repression by inducing its export from the nucleus, and regulates cell cycle progression. Phosphorylation induces transcriptional activity by inhibition of ERF repression. This is the major <i>in vivo</i> phosphorylation site in ERF (≥ 150 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). ERF is known to be phosphorylated at this site <i>in vitro</i> by ERK1, and ERK2.
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 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ 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 Rat Mouse

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