

AB-PN583

ER α -pS167 Antibody

Phosphosite-specific rabbit polyclonal antibody for ER α (ESR1; ER-alpha). This phosphoserine-site antibody also cross-reacts with a phosphotyrosine substitution of the phosphosite.

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Target Protein

Protein Name Long:	Estrogen receptor alpha
Protein Alias:	ER; Era; ESR; ESR1; ESTR; ESTRA; Estradiol receptor; estrogen receptor 1; NR3A1
UniProt ID:	P03372
Protein Molecular Mass:	66,216 Da (595 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ERa
Antibody Immunogen Sequence:	ERLA(pS)TNDKGC
Antibody Immunogen Description:	Corresponds to amino acid residues E163 to G172. S167 phosphorylation induces transcriptional activity and regulates cell growth, apoptosis, transcription, acetylation, activation and molecular association, including inducing interaction with SRC-3. This is one of the major <i>in vivo</i> phosphorylation sites in the estrogen receptor (≥ 5 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). ERa is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), Akt2 (PKBb), AurKA, CK2a1 (CSNK2A1), IKKE, p70S6K (RPS6KB1), RSK1 (RPS6KA1), and RSK2 (RPS6KA3).
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% 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 Dog Mouse Chicken Frog

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