

AB-PN806

TRHR-pS364+pT365 Antibody

Phosphosite-specific rabbit polyclonal antibody for TRHR



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Target Protein

Protein Name Long:	Thyrotropin-releasing hormone receptor
Protein Alias:	Thyroliberin receptor; TRFR; TRH-R
UniProt ID:	P34981
Protein Molecular Mass:	45,085 Da (398 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TRHR
Antibody Immunogen Sequence:	C(βA)DHF(pS)(pT)ELD
Antibody Immunogen Description:	Corresponds to amino acid residues D361 to D368. S364 and T365 phosphorylation leads to internalization of the receptor. These have not been identified as <i>in vivo</i> phosphorylation sites of TRHR based on mass spectrometry reports recorded in PhosphoSitePlus. TRHR is known to be phosphorylated <i>in vitro</i> at S364 by BARK1 (GRK2, ADRBK1), and at T365 by BARK1 (GRK2, ADRBK1), and CK2a1 (CSNK2A1).
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 multipеп 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
Lot Numbers:	
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 Chicken Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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