

# AB-PN977

## PSEN1-pT354 Antibody

Phosphosite-specific rabbit polyclonal antibody for PSEN1. This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Presenilin-1
<b>Protein Alias:</b>	AD3; AD3H; FAD; Presenilin-1 CTF12; PS1; PS-1; PSN1; PSNL1; S182; S182 protein
<b>UniProt ID:</b>	P49768
<b>Protein Molecular Mass:</b>	52,668 Da (467 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PSEN1
<b>Antibody Immunogen Sequence:</b>	PHRS(pT)PES(β)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues P350 to S357. T354 phosphorylation stimulates enzyme activity. This is a major phosphorylation site <i>in vivo</i> based on ≥24 mass spectrometry reports recorded in PhosphoSitePlus. PSEN1 is known to be phosphorylated at this site <i>in vitro</i> by CDK5, and DYRK1A.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 μg
<b>Antibody Concentration:</b>	0.85 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Rat   Mouse   Chicken

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