

# AB-PN931

## AChE-pY164 Antibody

Phosphosite-specific rabbit polyclonal antibody for AChE. This phosphotyrosine-site antibody also cross-reacts with phosphothreonine and phosphoserine substitutions.

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### Target Protein

<b>Protein Name Long:</b>	Acetylcholinesterase
<b>Protein Alias:</b>	ACES; Acetylcholinesterase (Yt blood group); ARACHE; EC 3.1.1.7; N-ACHE; YT
<b>UniProt ID:</b>	P22303
<b>Protein Molecular Mass:</b>	67,796 Da (614 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human AChE
<b>Antibody Immunogen Sequence:</b>	CSLDV(pY)DGR
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues S160 to R167. Phosphorylation of Y164 of acetylcholinesterase stimulates enzyme activity. This has not been reported as an <i>in vivo</i> phosphorylation site based on high throughput mass spectrometry studies recorded in PhosphoSitePlus.
<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>	0.5 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   Chimpanzee   Rhesus macaque   Dog   Rat   Mouse   Platypus   Chicken   Frog   Zebra fish   Honey bee   Nematode worm

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