

# AB-PN972

## NF-H-pS648 Antibody

Phosphosite-specific rabbit polyclonal antibody for NF-H (NEFH). This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine, threonine and glutamic acid substitutions in the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Neurofilament heavy polypeptide
<b>Protein Alias:</b>	200 kDa neurofilament protein; Neurofilament triplet H protein; Neurofilament, heavy polypeptide; NF-H
<b>UniProt ID:</b>	P12036
<b>Protein Molecular Mass:</b>	112,479 Da (1,026 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human NFH
<b>Antibody Immunogen Sequence:</b>	EEAK(pS)PEKAC
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues E644 to A652. The effect of S648 phosphorylation is unknown. This is one of the major <i>in vivo</i> phosphosite in NFH by mass spectrometry ( $\geq 13$ reports 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 multipепptide 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 $\mu$ g
<b>Antibody Concentration:</b>	0.45 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 $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ 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

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