

# AB-PN895

## OPTN-pS177 Antibody

Phosphosite-specific rabbit polyclonal antibody for OPTN



**KINEXUS**

Website: [www.kinexus.ca](http://www.kinexus.ca)

Email: [info@kinexus.ca](mailto:info@kinexus.ca)

Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1

Vancouver, British Columbia,

Canada V6P 6T3

### Target Protein

<b>Protein Name Long:</b>	Optineurin
<b>Protein Alias:</b>	FIP2; GLC1E; HIP7; HYPL; NRP; Optic neuropathy-inducing protein; TFIIIA-INTP
<b>UniProt ID:</b>	Q96CV9
<b>Protein Molecular Mass:</b>	65,922 Da (577 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human OPTN
<b>Antibody Immunogen Sequence:</b>	C(βA)SED(pS)FVE
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues S174 to E180. S177 phosphorylation induces interaction with SPTLC3 and apoptosis, and inhibits binding to RAB8A. This is one of the major <i>in vivo</i> phosphorylation sites of OPTN based on mass spectrometry (≥31 reports documented in PhosphoSitePlus). OPTN is known to be phosphorylated at this site <i>in vitro</i> by Plk1 (PLK), and TBK1 (NAK).
<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 µg
<b>Antibody Concentration:</b>	0.6 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

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