

# AB-PN846

## PSD95-pS295 Antibody

Phosphosite-specific rabbit polyclonal antibody for DLG4 (PSD95)



**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>	Disks large homologue 4
<b>Protein Alias:</b>	PSD 95; PSD-95; DLG4; SAP90; Synapse-associated protein 90; Postsynaptic density protein 95
<b>UniProt ID:</b>	P78352
<b>Protein Molecular Mass:</b>	85,430 Da (767 AA; P78352-2); 80,495 Da (724 AA; P78352-1); 80,125 Da (721 AA; P78352-3)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PSD95
<b>Antibody Immunogen Sequence:</b>	RRY(pS)PVAC
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues R292 to A298. Phosphorylation of S295 affects neuroplasticity. This is a minor <i>in vivo</i> phosphorylation site in PSD95 (DLG4) (≥12 reports from 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 multipep 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>	1 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   Dog   Rat   Mouse   Platypus

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