

# AB-PN932

## GFAP-pS13 Antibody

Phosphosite-specific rabbit polyclonal antibody for GFAP. This phosphoserine-site antibody also weakly cross-reacts with a phosphothreonine substitution in the phosphosite.

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>	Glial fibrillary acidic protein
<b>Protein Alias:</b>	Intermediate filament protein; Astrocyte; gfap; DKFZp459C0729; MGC139638; FLJ45472; A1836096; GFAP
<b>UniProt ID:</b>	P14136
<b>Protein Molecular Mass:</b>	50,289 Da (438 AA; P14136-2); 49,880 Da (432 AA; P14136-1); 49,508 Da (431 AA; P14136-3)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human GFAP
<b>Antibody Immunogen Sequence:</b>	CAARR(pS)YVS
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues A9 to S16. Phosphorylation of GFAP induces interaction with Fascin. This has been moderately reported as phosphorylated in $\geq 5$ mass spectrometry studies in PhosphoSitePlus. GFAP is known to be phosphorylated at this site <i>in vitro</i> by AurB, PKACA, and ROCK1.
<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 $\mu$ g
<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 $-40^{\circ}\text{C}$ 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   Dog   Rat   Mouse

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