

# AB-PN956

## eIF4E-pS209 Antibody

Phosphosite-specific rabbit polyclonal antibody for eIF4E. This phosphoserine-site antibody also cross-reacts with phosphothreonine, and glutamic acid substitutions 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>	Eukaryotic translation initiation factor 4E
<b>Protein Alias:</b>	eIF-4F 25 kDa subunit;mRNA cap-binding protein
<b>UniProt ID:</b>	P06730
<b>Protein Molecular Mass:</b>	25,097 Da (217 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human eIF4E
<b>Antibody Immunogen Sequence:</b>	TKSG(pS)TTK(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues T205 to K212. Phosphorylation of S209 stimulates enzyme activity. It is one of the major <i>in vivo</i> phosphorylation sites in eIF4E with >5 reports by mass spectrometry listed in PhosphoSitePlus. eIF4E is known to be phosphorylated at this site <i>in vitro</i> by Mnk1.
<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>	0.35 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   Chicken   Frog   Zebra fish

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