

# AB-PP554

## PTPRE-pY696 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPRE (PTP-epsilon). This phosphotyrosine-site antibody also weakly cross-reacts with phosphothreonine and phosphoserine substitutions of 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>	Receptor-type tyrosine-protein phosphatase epsilon
<b>Protein Alias:</b>	EC 3.1.3.48; PTPE; PTP-epsilon; R-PTP-epsilon
<b>UniProt ID:</b>	P23469
<b>Protein Molecular Mass:</b>	80,642 Da (700 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PTPRE
<b>Antibody Immunogen Sequence:</b>	FSD(pY)ANF(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues F693 to F699. The effect of Y696 phosphorylation is unclear, but it is the major <i>in vivo</i> site of phosphorylation by mass spectrometry (≥605 reports recorded in PhosphoSitePlus). PTPRE is known to be phosphorylated at this site <i>in vitro</i> by ErbB2 (HER2).
<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>	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   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