

# AB-PP547

## PPP1R16A-pY434 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1R16A (MYPT3). This phosphotyrosine-site antibody also weakly cross-reacts with a serine substitution 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>	Protein phosphatase 1 regulatory subunit 16A
<b>Protein Alias:</b>	Myosin phosphatase targeting 3; Myosin phosphatase-targeting subunit 3; MYPT3; PP16A; Protein phosphatase 1 regulatory 16A; Protein phosphatase 1, regulatory (inhibitor) 16A
<b>UniProt ID:</b>	Q96I34
<b>Protein Molecular Mass:</b>	57,811 Da (528 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PPP1R16A
<b>Antibody Immunogen Sequence:</b>	RSVS(pY)QLS( $\beta$ )C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues R430 to S437. The effect of Y434 phosphorylation is unclear. This is a major <i>in vivo</i> phosphorylation site in PPP1R16A based on $\geq 13$ mass spectrometry reports 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 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 $\mu$ g
<b>Antibody Concentration:</b>	0.25 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   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