

# AB-PP541

## PPP1CA-pY134+pY137 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1CA (PP1/Ca)



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
<b>Protein Alias:</b>	EC 3.1.3.16; PP1A; PP-1A; PPP1A; Protein phosphatase 1, catalytic subunit, alpha isoform; Serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit; Serine/threonine protein phosphatase PP1-alpha 1, catalytic subunit
<b>UniProt ID:</b>	P62136
<b>Protein Molecular Mass:</b>	37,512 Da (330 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PPP1CA
<b>Antibody Immunogen Sequence:</b>	NRI(pY)GF(pY)DE(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues N131 to E139. The effects of Y134 and Y137 phosphorylation are unclear. These are minor sites of <i>in vivo</i> phosphorylation based on $\geq 3$ and $\geq 23$ mass spectrometry reports, respectively, 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 µg
<b>Antibody Concentration:</b>	0.45 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   Rat   Mouse   Platypus   Chicken   Frog   Zebra fish   Fruit fly   Honey bee   Neamtode worm   Sea urchin   Maize   Thale cress   Budding yeast   Red bread mold

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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