# AB-PP505

## PPP2CB-pT304 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP2CB. This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

## Target Protein

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| **Protein Name Long:** | Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform |
| **Protein Alias:** | EC 3.1.3.16; P2AB; PP2AB; PP2A-beta; Protein phosphatase 2 (formerly 2A) catalytic subunit, beta isoform; Serine/threonine protein phosphatase 2A, catalytic subunit, beta isoform |
| **UniProt ID:** | P62714 |
| **Protein Molecular Mass:** | 35,575 Da (309 AA) |

## Immunogen

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| **Antibody Immunogen Source:** | Synthetic phosphopeptide patterned after human PPP2CB |
| **Antibody Immunogen Sequence:** | TRR(pT)PDY(βA)C |
| **Antibody Immunogen Description:** | Corresponds to amino acid residues T301 to Y307. T304 phosphorylation inhibits phosphatase activity. This is one of the major sites of *in vivo* phosphorylation of PPP2CB based on ≥10 mass spectrometry reports recorded in PhosphoSitePlus. This particular human phosphosite is highly conserved in vertebrates and also found in yeast and mould. |
| **Antibody Target Type:** | Phosphosite-specific |

## Production

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| **Antibody Host Species:** | Rabbit |
| **Antibody Type:** | Polyclonal |
| **Antibody Isotype:** | IgG |
| **Production Method:** | 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. |
| **Amount:** | 25 µg |
| **Antibody Concentration:** | 1 mg/ml |
| **Storage Buffer:** | Phosphate buffered saline pH 7.4, 0.05% Thimerasol |
| **Storage Conditions:** | 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. |
| **Storage Stability:** | >2 years |

## Applications

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| **Product Use:** | Western blotting \| Antibody microarray |
| **Antibody Dilution Recommended:** | 2 µg/ml for immunoblotting |
| **Antibody Species Reactivity:** | Human \| Chimpanzee \| Dog \| Rat \| Mouse \| Platypus \| Chicken \| Fruit fly \| Honey bee \| Sea urchin \| 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.

For more information on our products please visit https://kinexus-ca.myshopify.com/ or contact us at 1-866-546-3987