

Anti-PP2A B subunit antibody ab16448

1 References

Overview

Product name	Anti-PP2A B subunit antibody
Description	Rabbit polyclonal to PP2A B subunit
Host species	Rabbit
Specificity	Based on sequence homology we believe this antibody will detect the following isoforms of the PP2A B subunit. The immunogen sequence is 100% identical to Q16537; epsilon isoform (PPP2R5E), Q13362; gamma isoform (PPP2R5C), Q14738; delta isoform (PPP2R5D) and Q15173 beta isoform (PPP2R5B), and 92% identical to Q15172; alpha isoform (PPP2R5A). If the isoform you are interested in is not listed, please contact our technical support team on technical@abcam.com who will be happy to check that for you.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human PP2A B subunit aa 352-365 conjugated to Keyhole Limpet Haemocyanin (KLH). The sequence is also 100% identical to Q13362 (PPP2R5C), Q14738 (PPP2R5D) and Q15173 (PPP2R5B), and 92% identical to Q15172 (PPP2R5A). Sequence: VSSPHFQVAERALY Database link: Q16537 Run BLAST with Run BLAST with
Positive control	WB: Rat brain extract and Recombinant Human PPP2R5D protein (ab114547)
General notes	A protein phosphatase is a phosphatase enzyme that removes a phosphate group from the phosphorylated amino acid residue of its substrate protein. Protein phosphorylation is one of the most common forms of reversible protein posttranslational modification (PTM), with up to 30% of all proteins being phosphorylated at any given time. Protein kinases (PKs) are the effectors of phosphorylation and catalyse the transfer of a γ -phosphate from ATP to specific amino acids on proteins. Several hundred PKs exist in mammals and are classified into distinct super-families. Proteins are phosphorylated predominantly on Ser, Thr and Tyr residues, which account for 79.3, 16.9 and 3.8% respectively of the phosphoproteome, at least in mammals. In contrast, protein phosphatases (PPs) are the primary effectors of dephosphorylation and can be grouped into three main classes based on sequence, structure and catalytic function. The largest class of PPs is the phosphoprotein phosphatase (PPP) family comprising PP1, PP2A, PP2B, PP4, PP5, PP6 and PP7, and the protein phosphatase Mg^{2+} or Mn^{2+} -dependent (PPM) family, composed primarily of PP2C.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.08% Sodium azide Constituent: PBS
Purity	Ammonium Sulphate Precipitation
Purification notes	Purified by Ammonium sulfate precipitation.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab16448 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.

Target

Relevance Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit. The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. There is an alpha isoform, a beta isoform, a gamma isoform, a delta isoform and an epsilon isoform.

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