


Product datasheet

Anti-PPP1A/PPP1CA antibody ab16446

1 References

Overview

<b>Product name</b>	Anti-PPP1A/PPP1CA antibody
<b>Description</b>	Rabbit polyclonal to PPP1A/PPP1CA
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Cow, Human <b>Predicted to work with:</b> Rabbit, Dog 
<b>Immunogen</b>	Synthetic peptide corresponding to Human PPP1A/PPP1CA aa 317-330 (C terminal) conjugated to keyhole limpet haemocyanin. Sequence: RPIT PPRNSAKAKK  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Total rat brain homogenate.
<b>General notes</b>	This product was previously labelled as PPP1A

Properties

<b>Form</b>	Lyophilised
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.08% Sodium azide Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab16446** 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		1/500 - 1/1000. Predicted molecular weight: 38 kDa.
IP		Use at an assay dependent dilution.

## Target

<b>Function</b>	Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase.
<b>Sequence similarities</b>	Belongs to the PPP phosphatase family. PP-1 subfamily.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Nucleus > nucleoplasm. Nucleus > nucleolus. Primarily nuclear and largely excluded from the nucleolus. Highly mobile in cells and can be relocalized through interaction with targeting subunits. NOM1 plays a role in targeting this protein to the nucleolus. In the presence of PPP1R8 relocalizes from the nucleus to nuclear speckles.

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