

## Product datasheet

# Anti-PPP1A antibody ab87017

1 Image

### Overview

<b>Product name</b>	Anti-PPP1A antibody
<b>Description</b>	Rabbit polyclonal to PPP1A
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Guinea pig, Cow, Dog, Pig
<b>Immunogen</b>	Synthetic peptide corresponding to a region within N terminal amino acids 2-51 (SDSEKLNLDSD IGRLLGSR VLTPHCAPVQ GSRPGKNVQL TENEIRGLCL) of Human PPP1A (NP_001008709). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Jurkat cell lysate.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 2% Sucrose, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab87017** 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 a concentration of 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 38 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

### Function

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.

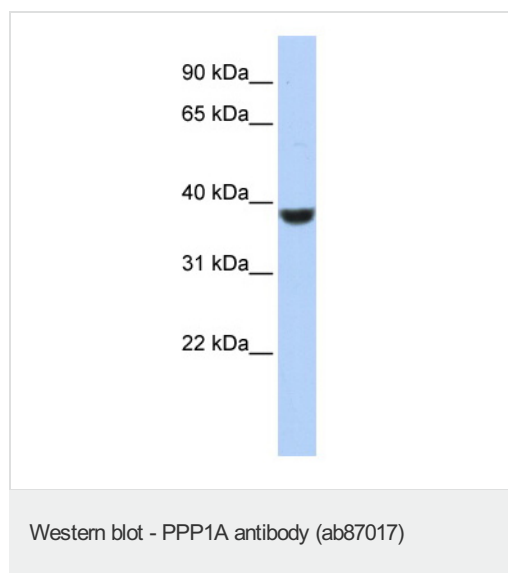
### Sequence similarities

Belongs to the PPP phosphatase family. PP-1 subfamily.

### Cellular localization

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.

## Images



Anti-PPP1A antibody (ab87017) at 1 µg/ml (in 5% skim milk / PBS buffer) + Jurkat cell lysate at 10 µg

### Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size** : 38 kDa

**Observed band size** : 38 kDa

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