

Datasheet for ABIN264952  
**anti-PPP4R1 antibody (AA 38-52)**



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## Overview

Quantity:	0.1 mg
Target:	PPP4R1
Binding Specificity:	AA 38-52
Reactivity:	Human, Mouse, Rat, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP4R1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Antibody raised against synthetic peptide corresponding to amino acids 38 to 52 of the human protein phosphatase 4R1.
Isotype:	IgG
Purification:	Purified

## Target Details

Target:	PPP4R1
Abstract:	<a href="#">PPP4R1 Products</a>
Background:	Protein serine/threonine phosphatase 4R1 is a protein which is associated with the catalytic subunit of protein serine/threonine phosphatase 4 (PP4C) and may possibly regulate the activity of the enzyme. PP4C is 65 % identical to PP2AC at the amino acid level and has been

## Target Details

placed in the type 2A family of phosphatases. PP4C has been highly conserved between species sharing 91 % amino acid identity between human and Drosophila PP4C is predominantly localized in the nucleus in rat brain and liver but is most highly expressed in testis. Additionally, PP4C was demonstrated to be an essential enzyme in the development of Drosophila embryos. The expression of PP4C was reduced to 25 % of the normal protein level in a mutant strain of Drosophila termed centrosomes minus microtubules (cmm). An interesting characteristic of the cmm phenotype is the presence of regions of cells that are unable to complete mitosis because no microtubules exist to connect chromatin and centrosomes. This phenotype implicates PP4C in the regulation of the nucleation and/or stabilization of microtubules. These data taken together indicate that PP4 has a crucial cellular function, although a physiological substrate for PP4 has not yet been identified. Synonyms: PP4R1, Protein Phosphatase X/A'2

## Application Details

Application Notes:	Western Blot: Detects a 125 kDa band in bovine testes lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

## Handling

Buffer:	Phosphate buffered saline with 0.08 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20 °C only.