

For Research Use Only

# PPP1R3C Polyclonal antibody

Catalog Number: 29424-1-AP



## Basic Information

<b>Catalog Number:</b> 29424-1-AP	<b>GenBank Accession Number:</b> BC012625	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5507	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> protein phosphatase 1, regulatory (inhibitor) subunit 3C	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 317 aa, 36 kDa	
<b>Immunogen Catalog Number:</b> AG30280		

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HEK-293T cells, mouse cerebellum tissue, rat cerebellum tissue

**IHC:** human colon cancer tissue,

## Background Information

• Protein phosphatase 1 regulatory subunit 3C (PPP1R3C) is an enzyme that binds to protein phosphatase-1 (PP1) as a regulator. The central role of PPP1R3C is associated with glycogenesis and the overexpression of this gene increases glycogen storage. The cellular glycogen level is suppressed when PPP1R3C is knocked-down. PPP1R3C induces glycogen accumulation via HIF1 $\alpha$  during hypoxia and it is hypermethylated in melanoma (PMID: 25846879). Overexpression of PPP1R3C increased hepatic gluconeogenesis in vitro and in vivo while knockdown of PPP1R3C showed an opposite result (PMID: 31181215).

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

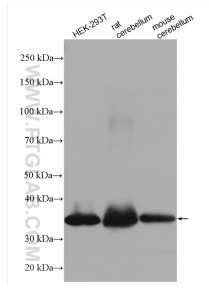
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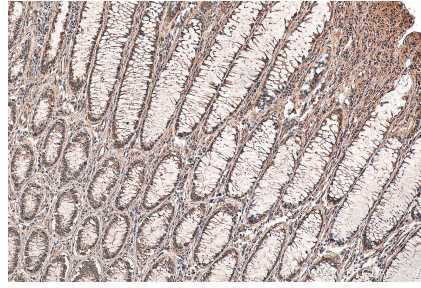
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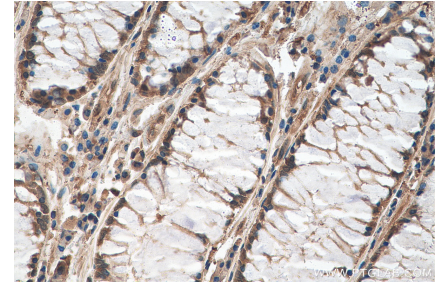
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29424-1-AP (PPP1R3C antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29424-1-AP (PPP1R3C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29424-1-AP (PPP1R3C antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).