

For Research Use Only

PPP1R3C Polyclonal antibody

Catalog Number: 29424-1-AP

1 Publications



Basic Information

Catalog Number: 29424-1-AP	GenBank Accession Number: BC012625	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 ug/ml by Nanodrop;	GeneID (NCBI): 5507	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9UQK1	
Isotype: IgG	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 3C	
Immunogen Catalog Number: AG30280	Calculated MW: 317 aa, 36 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : HEK-293T cells, mouse cerebellum tissue, rat cerebellum tissue
Species Specificity: human, mouse, rat	IHC : human colon cancer tissue,
Cited Species: mouse	

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

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 α 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Yarui Pan	39276178	J Mol Med (Berl)	WB,IHC

Storage

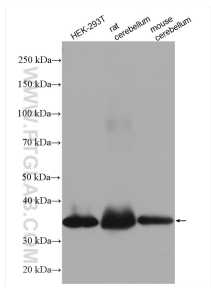
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

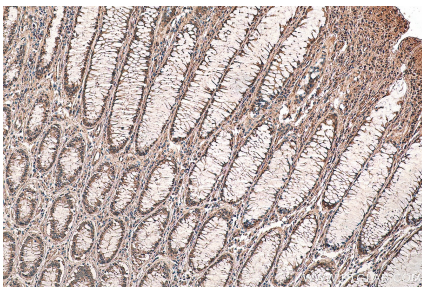
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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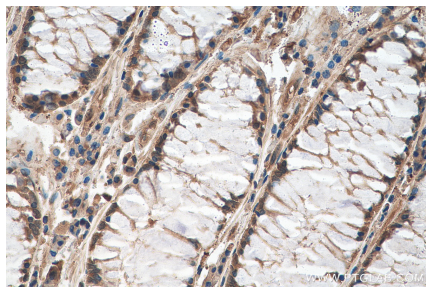
Selected Validation Data



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).