

For Research Use Only

UMPS Polyclonal antibody

Catalog Number: 14830-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

14830-1-AP

Size:

150ul, Concentration: 260 ug/ml by Nanodrop and 153 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6620

GenBank Accession Number:

BC000364

GeneID (NCBI):

7372

UNIPROT ID:

P11172

Full Name:

uridine monophosphate synthetase

Calculated MW:

52 kDa

Observed MW:

52 kDa, 45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse

Cited Species:

human, mouse

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 : HeLa cells, Jurkat cells, HEK-293T cells, COLO 320 cells

IP : HEK-293 cells,

IHC : human colon cancer tissue,

Background Information

UMPS, also named as OPRT and ODC, plays an important role in pyrimidine synthesis, converting orotic acid to uridine 5' monophosphate. UMPS has four isoforms with MW 53 kDa, 43 kDa, 33 kDa and 23 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Yuan Wang	30643150	Nat Commun	WB
Hong-Yun Zhao	25590835	Medicine (Baltimore)	IHC
Christopher J Halbrook	30827862	Cell Metab	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

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

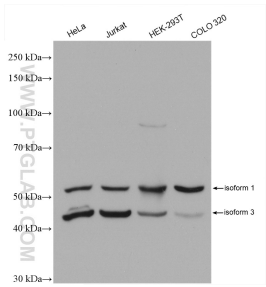
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

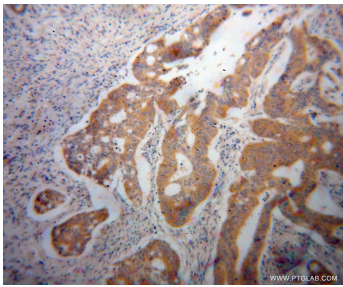
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

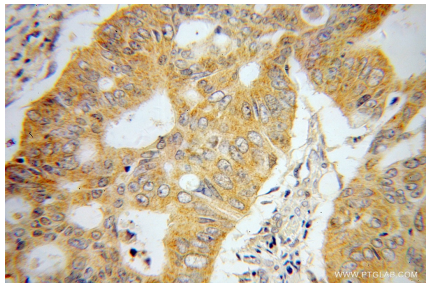
Selected Validation Data



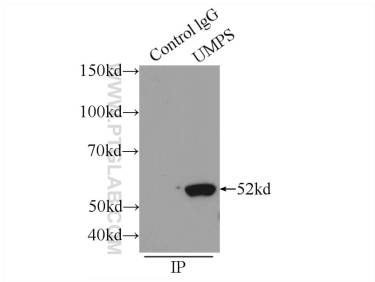
Various lysates were subjected to SDS PAGE followed by western blot with 14830-1-AP (UMPS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



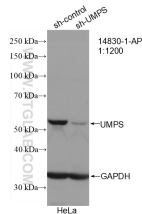
Immunohistochemical analysis of paraffin-embedded human colon cancer using 14830-1-AP (UMPS antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 14830-1-AP (UMPS antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-UMPS (IP:14830-1-AP, 3ug; Detection:14830-1-AP 1:500) with HEK-293 cells lysate 1700ug.



WB result of UMPS antibody (14830-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-UMPS transfected HeLa cells.