

For Research Use Only

HPRT Polyclonal antibody

Catalog Number: 15059-1-AP

Featured Product

37 Publications



Basic Information

Catalog Number:

15059-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7044

GenBank Accession Number:

BC000578

GeneID (NCBI):

3251

UNIPROT ID:

P00492

Full Name:

hypoxanthine
phosphoribosyltransferase 1

Calculated MW:

25 kDa

Observed MW:

24-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

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

IHC: 1:500-1:2000

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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 : HeLa cells, HEK-293 cells, A549 cells, mouse liver
tissue, MCF-7 cells, HepG2 cells, Jurkat cells, Y79 cells,
NIH/3T3 cells, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue, human liver cancer tissue,
human pancreas tissue

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells,

Background Information

HPRT, also named HPRT1 and HGPRT, plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutation of HPRT1 is associated with Lesch-Nyhan syndrome (LNS) which is an X-linked inherited neurogenetic disorder of purine metabolism. It has been reported that HPRT1 also plays an important role in HPRT-related gout.

Notable Publications

Author	Pubmed ID	Journal	Application
R Blair Dodson	27881387	Am J Physiol Heart Circ Physiol	WB
Erin K Zinkhan	30453824	Reprod Sci	WB
Erin K Zinkhan	29896121	Front Physiol	WB

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

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

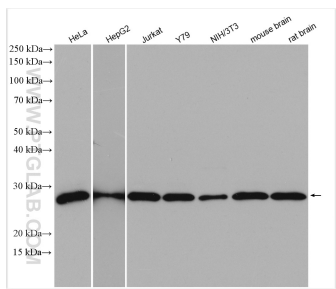
T: 4006900926

E: Proteintech-CN@ptglab.com

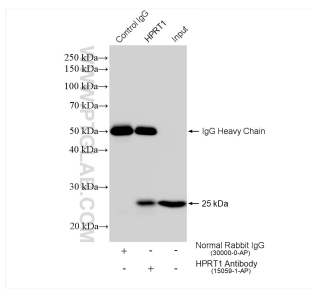
W: ptgcn.com

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

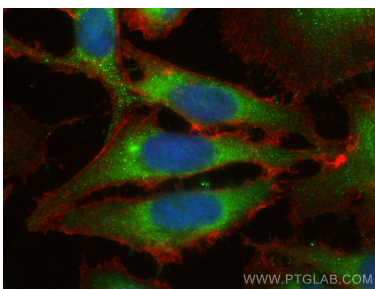
Selected Validation Data



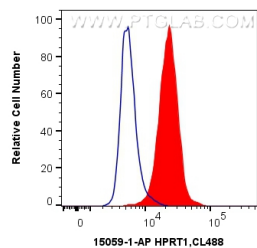
Various lysates were subjected to SDS PAGE followed by western blot with 15059-1-AP (HPRT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



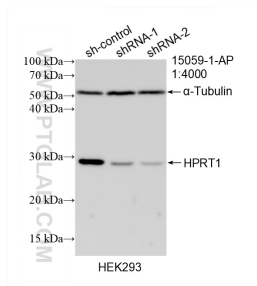
IP result of anti-HPRT (IP:15059-1-AP, 4ug; Detection:15059-1-AP 1:6000) with mouse brain tissue lysate 1280 ug.



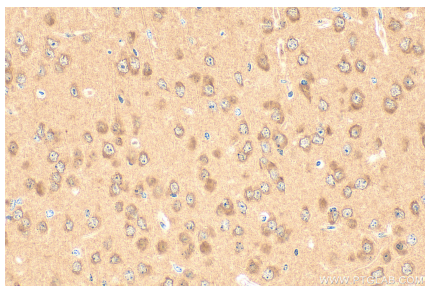
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using HPRT antibody (15059-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).



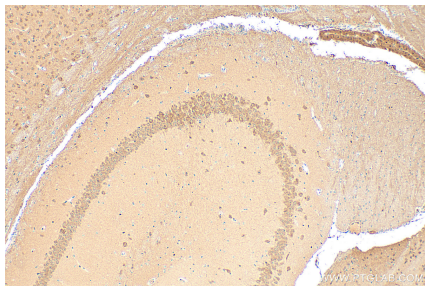
1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human HPRT (15059-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



WB result of HPRT antibody (15059-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HPRT transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15059-1-AP (HPRT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15059-1-AP (HPRT antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).