

# Human HPRT antibody

Catalog Number: ATGA0496

## PRODUCT INFORMATION

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**Catalog number**

ATGA0496

**Clone No.**

AT1D9

**Product type**

Monoclonal Antibody

**UnitProt No.**

P00492

**NCBI Accession No.**

NP\_000185

**Alternative Names**

Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, HPRT, Hypoxanthine-guanine phosphoribosyltransferase HPRT 1, HPRT1, Hypoxanthine guanine phosphoribosyltransferase, Hypoxanthine phosphoribosyltransferase 1 (Lesch Nyhan syndrome), Hypoxanthine phosphoribosyltransferase 1.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human HPRT (1-218aa) purified from E. coli.

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, FACS, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

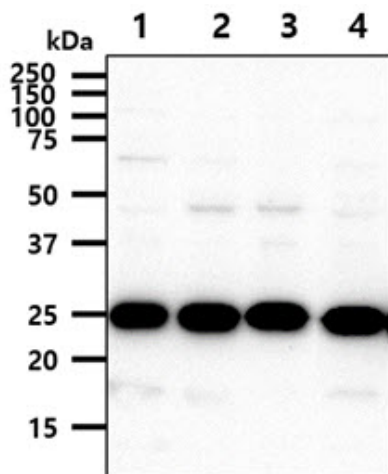
HPRT is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. HPRT, which acts as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate to form GMP, functions primarily to salvage purines from degraded DNA to renewed purine synthesis.

### General References

- Sculley DG, et al. (1993). Hum. Genet. 90(3): 195-207.
- Stout JT, Caskey CT (1986). Annu. Rev. Genet. 19: 127-48.
- Davidson BL, et al. (1991). Am. J. Hum. Genet. 48(5): 951-8.

## DATA

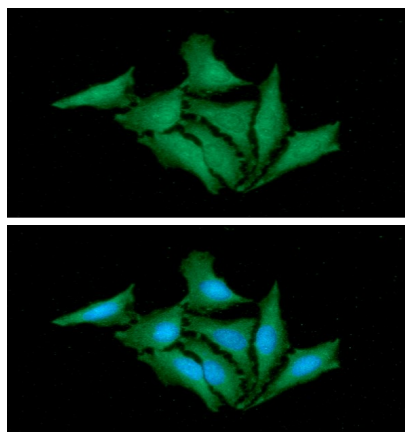
### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HPRT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: HeLa cell lysate
- Lane 2.: MCF7 cell lysate
- Lane 3.: 293T cell lysate
- Lane 4.: A549 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

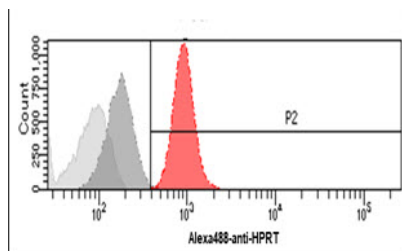


ICC/IF analysis of HPRT in HaLe cells. The cell was stained with ATGA0496 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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## Flow cytometry (FACS)



Flow cytometry analysis of HPRT in A549 cells. The cell was stained with ATGA0496 at 2-5ug for 1x10<sup>6</sup> cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).