PRODUCT INFORMATION

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

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

lgG2b 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.



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

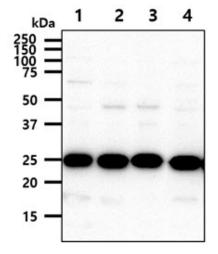
HPRT is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. HPRT, which acts as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate 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.

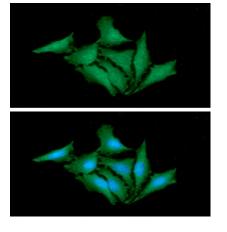
DATA

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

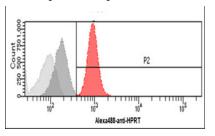
Immunocytochemistry/Immunofluorescence (ICC/IF)



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 1x106cells (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).

