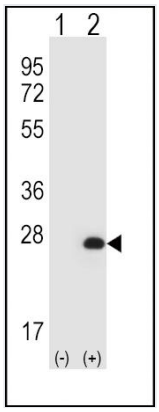
# HPRT1 Antibody – Rabbit Polyclonal

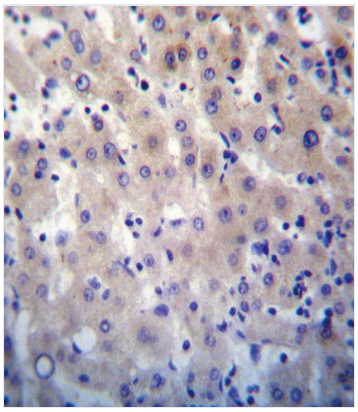
## PRODUCT OVERVIEW

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| **Product Name** | HPRT1, Polyclonal Antibody |
| **Full Product Name** | HPRT1, NT (HPRT1, HPRT, Hypoxanthine-guanine phosphoribosyltransferase) (AP) |
| **Product Gene Name** | anti-HPRT1 antibody |
| **Product Synonym Names** | HPRT1; HPRT; Hypoxanthine-guanine phosphoribosyltransferase |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase. |
| **Purity/Purification** | Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS. |
| **Preparation and Storage** | Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 24,579 Da |
| **OMIM** | 300322 |
| **3D Structure** | ModBase 3D Structure for P00492 |
| **Immunogen** | HPRT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected between amino acids 65 and 95 of human HPRT1. |
| **Conjugate** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-HPRT1 antibody** | Antibodies; Enzymes |
| **Applications Tested/Suitable for anti-HPRT1 antibody** | Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-HPRT1 antibody** | FC/FACS: 1:10-50<br>ELISA: 1:1,000<br>IHC: 1:10-50<br>WB: 1:50-100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-HPRT1 antibody** | The protein 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. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. |
| **Product References and Citations for anti-HPRT1 antibody** | Ceballos-Picot, I., Hum. Mol. Genet. 18 (13), 2317-2327 (2009). Sculley, D.G., Hum. Genet. 90 (3), 195-207 (1992). |
| **Other Notes** | Small volumes of anti-HPRT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

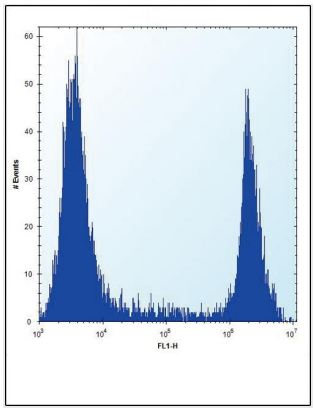
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| **Searchable Terms for HPRT1 purchase** | MBS6308243 is an antibody targeting HPRT1. Also known as HPRT1, NT (HPRT1, HPRT, Hypoxanthine-guanine phosphoribosyltransferase) (AP). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-HPRT1 antibody**
Western blot analysis of HPRT1 (arrow) using rabbit polyclonal HPRT1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HPRT1 gene.



**Immunohistochemistry (IHC) of anti-HPRT1 antibody**
HPRT1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HPRT1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-HPRT1 antibody**
HPRT1 Antibody (N-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HPRT1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4504483 |
| **NCBI GeneID** | 3251 |
| **NCBI Accession #** | NP_000185.1 |
| **UniProt Primary Accession #** | P00492 |
| **UniProt Secondary Accession #** | A6NHF0; B2R8M9 |
| **UniProt Related Accession #** | P00492 |
| **GenBank Nucleotide #** | NM_000194.2 |
| **NCBI Official Full Name** | hypoxanthine-guanine phosphoribosyltransferase |
| **NCBI Official Synonym Full Names** | hypoxanthine phosphoribosyltransferase 1 |
| **NCBI Official Symbol** | HPRT1 |
| **NCBI Official Synonym Symbols** | HPRT; HGPRT |

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| **UniProt Protein Name** | Hypoxanthine-guanine phosphoribosyltransferase |
| **Protein Family** | Hypoxanthine-guanine phosphoribosyltransferase |
| **UniProt Gene Name** | HPRT1 |
| **UniProt Synonym Gene Names** | HPRT; HGPRT; HGPRTase |
| **UniProt Entry Name** | HPRT_HUMAN |
| **NCBI Protein Information** | hypoxanthine-guanine phosphoribosyltransferase; HGPRTase |
| **NCBI Summary for HPRT1** | The protein encoded by this gene 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. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Lesch-Nyhan syndrome or gout.[provided by RefSeq, Jun 2009] |
| **UniProt Comments for HPRT1** | HPRT1: Converts guanine to guanosine monophosphate, and hypoxanthine to inosine monophosphate. Transfers the 5- phosphoribosyl group from 5-phosphoribosylpyrophosphate onto the purine. Plays a central role in the generation of purine nucleotides through the purine salvage pathway. Defects in HPRT1 are the cause of Lesch-Nyhan syndrome (LNS). LNS is characterized by complete lack of enzymatic activity that results in hyperuricemia, choreoathetosis, mental retardation, and compulsive self-mutilation. Defects in HPRT1 are the cause of gout HPRT-related (GOUT-HPRT); also known as HPRT-related gout or Kelley-Seegmiller syndrome. Gout is characterized by partial enzyme activity and hyperuricemia. Belongs to the purine/pyrimidine phosphoribosyltransferase family.<br><br>Protein type: Xenobiotic Metabolism - drug metabolism - other enzymes; Nucleotide Metabolism - purine; EC 2.4.2.8; Transferase; Cell development/differentiation<br><br>Chromosomal Location of Human Ortholog: Xq26.1<br><br>Cellular Component: cytoplasm; cytosol<br><br>Molecular Function: protein binding; protein homodimerization activity; magnesium ion binding; nucleotide binding; hypoxanthine phosphoribosyltransferase activity<br><br>Biological Process: hypoxanthine metabolic process; IMP salvage; cytolysis; adenine salvage; locomotory behavior; dopamine metabolic process; purine salvage; protein homotetramerization; cerebral cortex neuron differentiation; IMP metabolic process; hypoxanthine salvage; central nervous system neuron development; grooming behavior; lymphocyte proliferation; striatum development; nucleobase, nucleoside and nucleotide metabolic process; GMP salvage; dendrite morphogenesis; response to amphetamine; purine nucleotide biosynthetic process; purine base metabolic process; GMP catabolic process; positive regulation of dopamine metabolic process; purine ribonucleoside salvage; guanine salvage<br><br>Disease: Kelley-seegmiller Syndrome; Lesch-nyhan Syndrome |
| **Research Articles on HPRT1** | **1.** HPRT1 mutations in new Japanese families and PRPP concentration |
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