

## HPRT Monoclonal Antibody

<b>Catalog No :</b>	YM0335
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	HPRT
<b>Fields :</b>	>>Purine metabolism;>>Drug metabolism - other enzymes;>>Metabolic pathways;>>Nucleotide metabolism
<b>Gene Name :</b>	HPRT1
<b>Protein Name :</b>	Hypoxanthine-guanine phosphoribosyltransferase
<b>Human Gene Id :</b>	3251
<b>Human Swiss Prot No :</b>	P00492
<b>Mouse Swiss Prot No :</b>	P00493
<b>Immunogen :</b>	Purified recombinant fragment of HPRT expressed in E. Coli.
<b>Specificity :</b>	HPRT Monoclonal Antibody detects endogenous levels of HPRT protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	25kD

**Cell Pathway :** Purine metabolism;Drug metabolism;

**P References :** 1. Manjanatha MG, et.al Mutat Res. 2004 Mar 22;547(1-2):5-18.

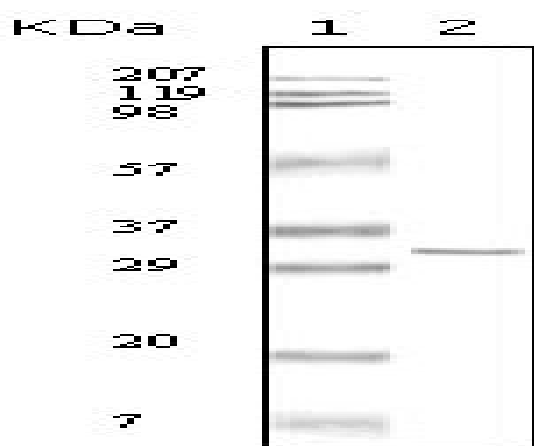
**Background :** hypoxanthine phosphoribosyltransferase 1 (HPRT1) Homo sapiens The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 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],

**Function :** catalytic activity:GMP + diphosphate = guanine + 5-phospho-alpha-D-ribose 1-diphosphate.,catalytic activity:IMP + diphosphate = hypoxanthine + 5-phospho-alpha-D-ribose 1-diphosphate.,cofactor:Binds 2 magnesium ions per subunit. One of the ions does not make direct protein contacts.,disease:Defects in HPRT1 are the cause of gout [MIM:300323]; also known as HPRT-related gout or Kelley-Seegmiller syndrome. Gout is characterized by partial enzyme activity and hyperuricemia.,disease:Defects in HPRT1 are the cause of Lesch-Nyhan syndrome (LNS) [MIM:300322]. LNS is characterized by complete lack of enzymatic activity that results in hyperuricemia, choreoathetosis, mental retardation, and compulsive self-mutilation.,online information:Hypoxanthine-guanine phosphoribosyltransferase entry,pathway:Purine metabolism; IMP biosynthesis via salvage pathway; IMP from hypoxanthine: step 1/1.,similarity:B

**Subcellular Location :** Cytoplasm.

**Expression :** Brain,

## Products Images



Western Blot analysis using HPRT Monoclonal Antibody against truncated HPRT recombinant protein.