



HPRT (PT1513R) Mouse mAb

Catalog No	YP-mAb-19474
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	HPRT1
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal,Mouse,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	HPRT1;Hypoxanthine-guanine phosphoribosyltransferase;HPRT1 ; HPRT ; Hypoxanthine-guanine phosphoribosyltransferase ; HGPRT ; HGPRTase
Observed Band	25kD
Calculated Molecular Weight	25kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Brain ,
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:Belongs to the purine/pyrimidine phosphoribosyltransferase family. ,subunit:Homotetramer. ,



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] ,

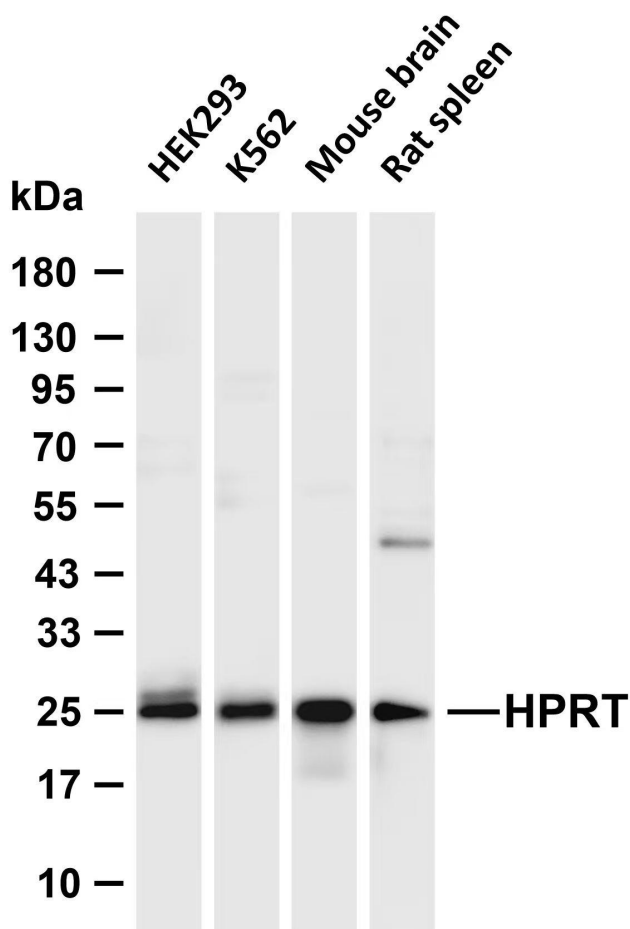
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HPRT (PT1513R) antibody. The HRP-conjugated Goat anti-mouse IgG (H + L) antibody was used to detect the antibody.

Lane 1: HEK293

Lane 2: K562

Lane 3: Mouse brain

Lane 4: Rat spleen

Predicted band size: 25kDa

Observed band size: 25kDa