10320 Camino Santa Fe, Suite G
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HPRT Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1046a

Specification

HPRT Antibody - Product Information

Application	**WB, E**
Primary Accession	P00492
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**

Description
The HPRT1 gene provides instructions for making an enzyme called hypoxanthine phosphoribosyltransferase 1. This enzyme allows cells to recycle purines, some of the building blocks of DNA and its chemical cousin RNA.The enzyme hypoxanthine-guanine phosphoribosyltrasferase (E.C.2.4.2.8., HPRT) plays a crucial role in uric acid synthesis and purine metabolism.This enzyme catalyzes the conversion of hypoxanthine and guanine to inosine monophosphate (IMP) and guanosine monophosphate (GMP), respectively, and uses phosphoribosylpyrophosphate (PRPP) as a cosubstrate and as a source of energy . This pathway is also known as the purine salvage pathway because it allows cells to reuse purine compounds to build DNA and RNA.

Immunogen
Purified recombinant fragment of HPRT expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

HPRT Antibody - Additional Information

Gene ID 3251

Dilution
WB~~1/500 - 1/2000
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HPRT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HPRT Antibody - Protein Information

Name HPRT1

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Synonyms HPRT

Function
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.

Cellular Location
Cytoplasm.

HPRT Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HPRT Antibody - Images

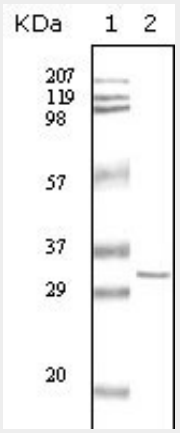

Figure 1: Western blot analysis using HPTR mouse mAb against truncated HPRT recombinant protein.

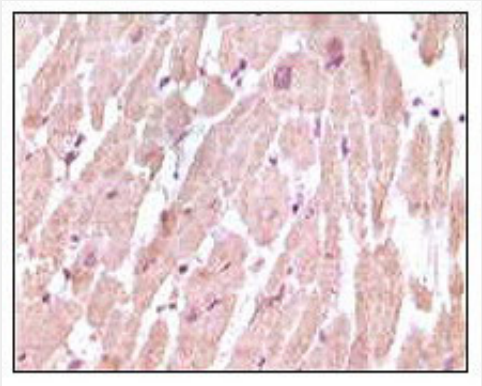

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Figure 2: Immunohistochemical analysis of paraffin-embedded human normal cardiac muscle tissue, showing cytoplasmic localization using cTnI mouse mAb with DAB staining.

HPRT Antibody - References

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