

HPRT Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1046a

Product Information

Application WB, E **Primary Accession** P00492 Reactivity Human Host Mouse Monoclonal Clonality **Clone Names** 1F8D11 Isotype IgG2b 24579 **Calculated MW**

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.

Additional Information

Gene ID 3251

Other Names Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, 2.4.2.8,

HPRT1, HPRT

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.

Protein Information

Name HPRT1

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.

References

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

Images

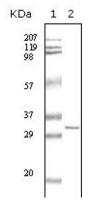


Figure 1: Western blot analysis using HPTR mouse mAb against truncated HPRT recombinant protein.

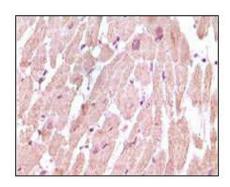


Figure 2: Immunohistochemical analysis of paraffin-embedded human normal cardiac muscle tissue, showing cytoplasmic localization using cTnI mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.