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HPRT1 Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2086a

Product Information

Application	WB, E
Primary Accession	P00492
Other Accession	Q6LDD9, NP_000185.1
Reactivity	Human
Predicted	Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Names	571CT1.3.4
Calculated MW	24579
Antigen Region	150-178

Additional Information

Gene ID	3251
Other Names	Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, HPRT1, HPRT
Target/Specificity	This HPRT1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 150-178 amino acids from human HPRT1.
Dilution	WB~~1:500~1600 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HPRT1 Antibody(Ascites) 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.

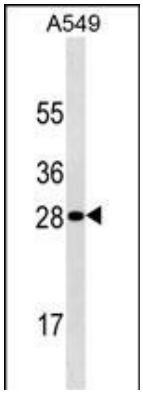
Background

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.

References

Garcia, M.G., et al. Nucleosides Nucleotides Nucleic Acids 29 (4-6), 301-305 (2010) :
Torres, R.J., et al. Nucleosides Nucleotides Nucleic Acids 29 (4-6), 295-300 (2010) :
Yamada, Y., et al. Nucleosides Nucleotides Nucleic Acids 29 (4-6), 291-294 (2010) :
Zampieri, M., et al. Mech. Ageing Dev. 131(2):89-95(2010)
Kudo, M., et al. Drug Metab. Pharmacokinet. 24(6):557-564(2009)

Images



HPRT1 Antibody (Cat. #AM2086a) western blot analysis in A549 cell line lysates (35µg/lane).This demonstrates the HPRT1 antibody detected the HPRT1 protein (arrow).