

Product Name: KD-Validated HPRT1 Mouse Monoclonal Antibody**Catalog #: KVA01934**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 24.6kDa

Antigen Information

Gene Name	HPRT1
Alternative Names	HPRT1; Hypoxanthine Phosphoribosyltransferase 1; HGPRT; HPRT; Hypoxanthine Guanine Phosphoribosyl Transferase; Hypoxanthine-Guanine Phosphoribosyltransferase; EC 2.4.2.8; HGPRTase; Hypoxanthine-Guanine Phosphoribosyltransferase 1; Testicular Tissue Protein Li 89; Lesch-Nyhan Syndrome
Gene ID	3251.0
SwissProt ID	P00492
Immunogen	Recombinant protein of human HPRT1

Background

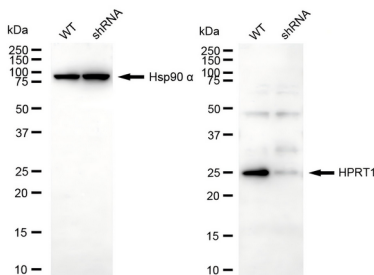
The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and

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.[provided by RefSeq, Jun 2009]

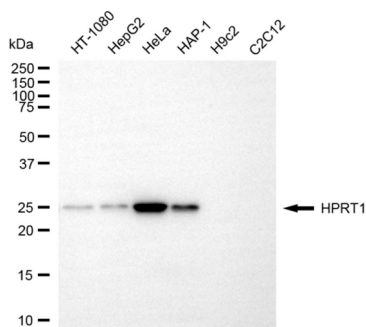
Research Area

Cell Biology, Epigenetics and Nuclear Signaling

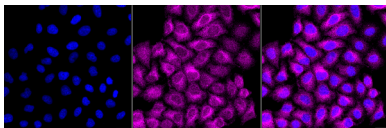
Image Data



Western blotting analysis using HPRT1 antibody (KVA01934). HPRT1 expression in wild-type (WT) and HPRT1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with HPRT1 antibody (KVA01934, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using HPRT1 antibody (KVA01934). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HPRT1 antibody (KVA01934, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with HPRT1 antibody (KVA01934, 1:1,000). Nuclei were stained blue with DAPI; HPRT1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.