

Product Name: KD-Validated HPRT1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01744

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:1,000-1:5,000; FC 1:200-1:2,000
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	A synthesized peptide derived from human HPRT

Background

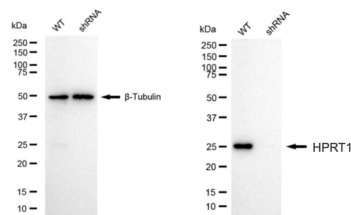
The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and

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]

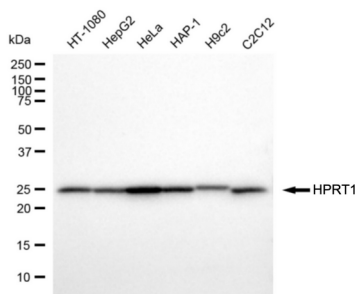
Research Area

Epigenetics and Nuclear Signaling, Cell Biology

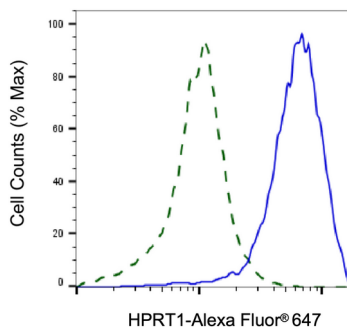
Image Data



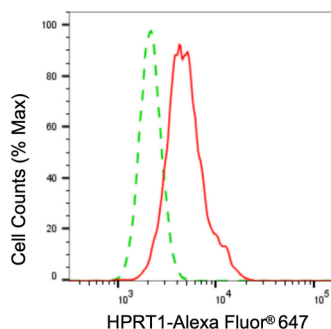
Western blotting analysis using HPRT1 antibody (KVA01744). HPRT1 expression in wild-type (WT) and HPRT1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with HPRT1 antibody (KVA01744, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using HPRT1 antibody (KVA01744). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HPRT1 antibody (KVA01744, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of HPRT1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with HPRT1 antibody (KVA01744, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of HPRT1 expression in HepG2 cells using HPRT1 antibody (KVA01744, 1:2,000). Green, isotype control; red, HPRT1.