

Basic Information

Product Name	Anti-HPRT1 Antibody
Gene Name	HPRT1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human HPRT recombinant protein (Position: A2-S110). Human HPRT shares 98.1% and 96.3% amino acid (aa) sequence identity with mouse and rat HPRT, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	25 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

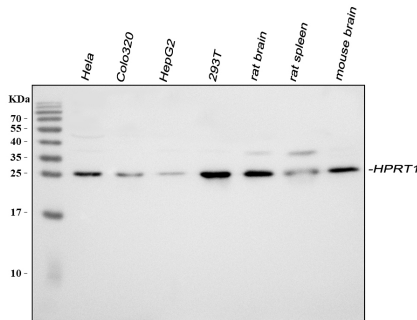
Background Information

Hypoxanthine-guanine phosphoribosyltransferase (HGPRT) is an enzyme encoded in humans by the HPRT1 gene. 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.

Reference

Anti-HPRT1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of HPRT1 using anti-HPRT1 antibody (PB1125). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human Colo320 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human 293T whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat spleen tissue lysates,

Lane 7: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HPRT1 antigen affinity purified polyclonal antibody (PB1125) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HPRT1 at approximately 25 kDa. The expected band size for HPRT1 is at 25 kDa.