

**Anti-HPRT Picoband Antibody**  
**Catalog # ABO11689****Specification**

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**Anti-HPRT Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P00492</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Hypoxanthine-guanine phosphoribosyltransferase(HPRT1) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-HPRT Picoband Antibody - Additional Information**

**Gene ID** 3251

**Other Names**

Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, 2.4.2.8, HPRT1, HPRT

**Calculated MW**

24579 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm.

**Protein Name**

Hypoxanthine-guanine phosphoribosyltransferase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Anti-HPRT Picoband Antibody - 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.

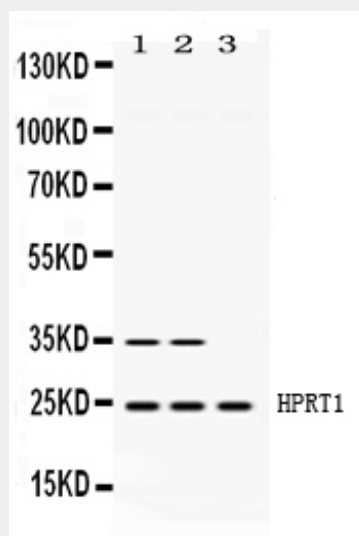
**Cellular Location**

Cytoplasm.

**Anti-HPRT Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-HPRT Picoband Antibody - Images**

Western blot analysis of HPRT1 expression in rat brain extract (lane 1), mouse brain extract (lane

2) and HELA whole cell lysates (lane 3). HPRT1 at 24KD was detected using rabbit anti- HPRT1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11689) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-HPRT Picoband Antibody - Background**

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.