

## Product datasheet

# Anti-HPRT antibody ab10479

KO 評価済

★★★★☆ 3 Abreviews 27 References 画像数 6

### 製品の概要

製品名	Anti-HPRT antibody
製品の詳細	Rabbit polyclonal to HPRT
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat, Human <b>交差が予測される動物種:</b> Chicken, Gerbil, Chinese hamster ▲
免疫原	Synthetic peptide derived from residues 200 to the C-terminus of Human HPRT. Immunogen の 所有権に関して
ポジティブ・コントロール	This antibody gave a positive control in the following human whole cell lysates: HeLa (Human epithelial carcinoma cell line) A431 (Human epithelial carcinoma cell line) MCF-7 (Human breast adenocarcinoma cell line) HEK 293 (Human embryonic kidney cell line) This antibody gave a positive control in the following mouse lysates: NIH 3T3 (Mouse embryonic fibroblast cell line) whole cell MEF1 (Mouse embryonic fibroblast cell line) whole cell Brain (mouse) tissue

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab10479** in the following tested applications.

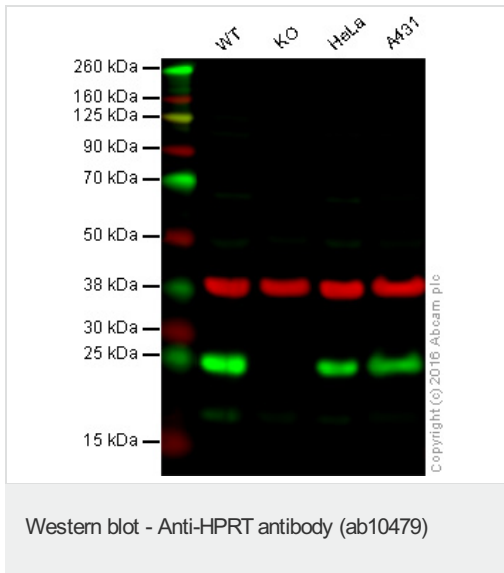
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★☆	1/500 - 1/1000. Predicted molecular weight: 24 kDa.
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## ターゲット情報

機能	<p>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.</p>
パスウェイ	Purine metabolism; IMP biosynthesis via salvage pathway; IMP from hypoxanthine: step 1/1.
関連疾患	<p>Defects in HPRT1 are the cause of Lesch-Nyhan syndrome (LNS) [MIM:300322]. LNS is characterized by complete lack of enzymatic activity that results in hyperuricemia, choreoathetosis, mental retardation, and compulsive self-mutilation.</p> <p>Defects in HPRT1 are the cause of gout HPRT-related (GOUT-HPRT) [MIM:300323]; also known as HPRT-related gout or Kelley-Seegmiller syndrome. Gout is characterized by partial enzyme activity and hyperuricemia.</p>
配列類似性	Belongs to the purine/pyrimidine phosphoribosyltransferase family.
細胞内局在	Cytoplasm.

## 画像



**Lane 1:** Wild-type HAP1 whole cell lysate (20  $\mu$ g)

**Lane 2:** HPRT1 knockout HAP1 whole cell lysate (20  $\mu$ g)

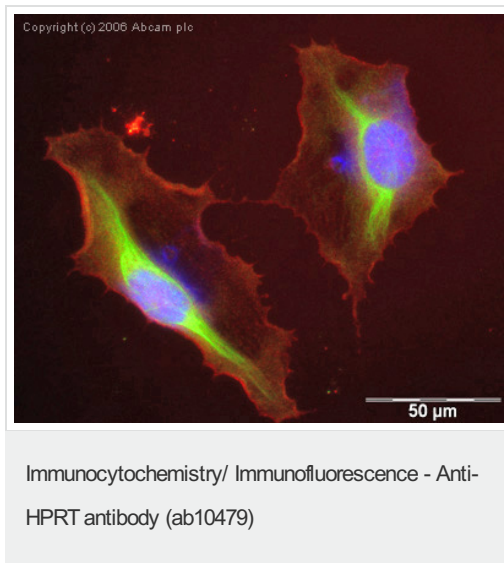
**Lane 3:** HeLa whole cell lysate (20  $\mu$ g)

**Lane 4:** A431 whole cell lysate (20  $\mu$ g)

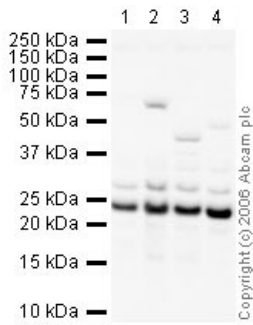
**Lanes 1 - 4:** Merged signal (red and green).

Green - ab10479 observed at 25 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab10479 was shown to specifically react with HPRT1 in wild-type HAP1 cells. No band was observed when HPRT1 knockout samples were examined. Wild-type and HPRT1 knockout samples were subjected to SDS-PAGE. Ab10479 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



ICC/IF image of ab10479 stained human HeLa cells. The cells were methanol fixed ( 5 min) and incubated with the antibody (ab10479, 5 $\mu$ g/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Image-iT™FX Signal Enhancer was used as the primary blocking agent, 5% BSA (in TBS-T) was used for all other blocking steps. DAPI was used to stain the cell nuclei (blue). Alexa Fluor® 594 phalloidin was used to label F-actin (red).



Western blot - Anti-HPRT antibody (ab10479)

**All lanes :** Anti-HPRT antibody (ab10479) at 1 µg/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2 :** A431 whole cell lysate (ab7909)

**Lane 3 :** MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

**Lane 4 :** HEK293 whole cell lysate (ab7902)

Lysates/proteins at 20 µg per lane.

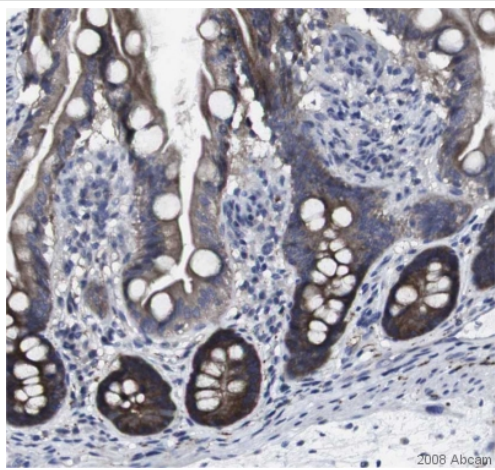
### Secondary

**All lanes :** Goat polyclonal to Rabbit IgG H&L (HRP) Pre-Adsorbed at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 24 kDa

**Observed band size:** 24 kDa



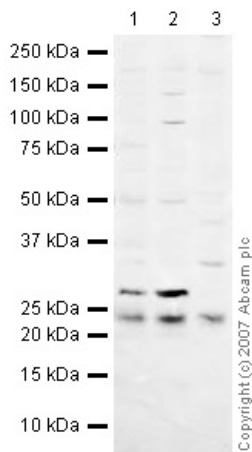
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HPRT antibody (ab10479)

Image courtesy of [Human Protein Atlas](#).

ab10479 staining HPRT in human small intestine. Paraffin embedded human small intestine tissue was incubated with ab10479 (1/200 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

ab10479 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines. Further results for this antibody can be found at

[www.proteinatlas.org](http://www.proteinatlas.org)



Western blot - Anti-HPRT antibody (ab10479)

**All lanes :** Anti-HPRT antibody (ab10479) at 1 µg/ml

**Lane 1 :** NIH 3T3 whole cell lysate (ab7179)

**Lane 2 :** MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

**Lane 3 :** Brain (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

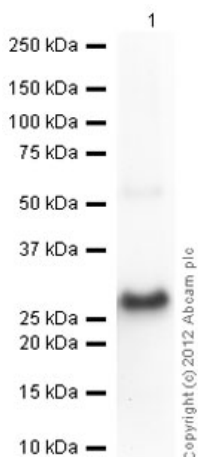
**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 24 kDa

**Observed band size:** 24 kDa

**Additional bands at:** 28 kDa (possible glycosylated form)



Western blot - Anti-HPRT antibody (ab10479)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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