abcam

Product datasheet

Anti-HPRT antibody ab10479

KO 評価済

4 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	**適用あり:** WB, ICC/IF, IHC-P
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** 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	Recombinant Human HPRT protein (ab117153) can be used as a positive control in WB. This antibody gave a positive control in the following human whole cell lysates: HeLa, A431, MCF-7, HEK 293 whole cell lysate This antibody gave a positive control in the following mouse lysates: NIH 3T3, MEF1 whole cell lysate, mouse brain tissue lysate

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 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.

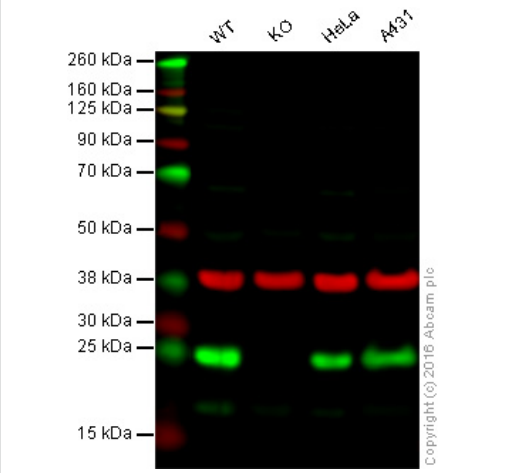
パスウェイ Purine metabolism; IMP biosynthesis via salvage pathway; IMP from hypoxanthine: step 1/1.

関連疾患 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.
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.

配列類似性 Belongs to the purine/pyrimidine phosphoribosyltransferase family.

細胞内局在 Cytoplasm.

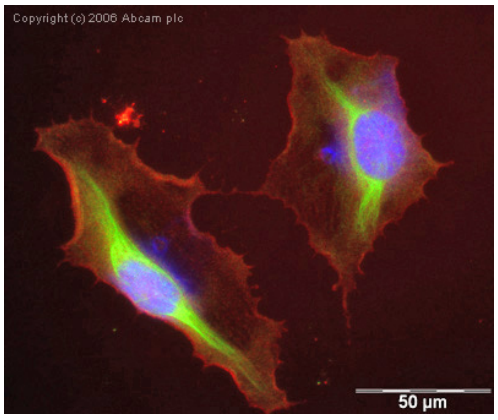
画像



Western blot - Anti-HPRT antibody (ab10479)

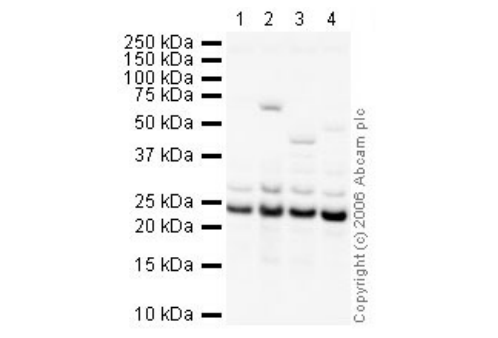
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: HPRT1 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: A431 whole cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab10479 observed at 25 kDa. Red - loading control, ab8245, observed 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.



Immunocytochemistry/ Immunofluorescence - Anti-HPRT antibody (ab10479)

ICC/IF image of ab10479 stained human HeLa cells. The cells were methanol fixed (5 min) and incubated with the antibody (ab10479, 5µg/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^{TM} 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

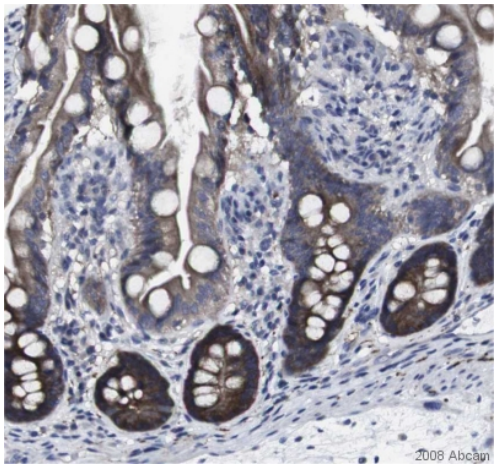
Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : A431 whole cell lysate (ab7909)
Lane 3 : MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
Lane 4 : HEK293 whole cell lysate (ab7902)

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.

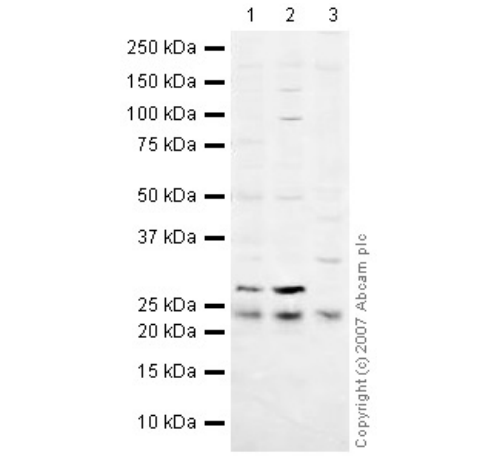
Predicted band size: 24 kDa
Observed band size: 24 kDa



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



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)

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