abcam

Product datasheet

# Anti-HPRT antibody [EPR5299] - BSA and Azide free ab236055

KO 評価済 リコンビナント RabMAb

画像数 5

## 製品の概要

| | |
|---|---|
| **製品名** | Anti-HPRT antibody [EPR5299] - BSA and Azide free |
| **製品の詳細** | Rabbit monoclonal [EPR5299] to HPRT - BSA and Azide free |
| **由来種** | Rabbit |
| **特異性** | The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. |
| **アプリケーション** | **適用あり:** IHC-P, IP, WB |
| **種交差性** | **交差種:** Mouse, Rat, Human |
| **免疫原** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **ポジティブ・コントロール** | WB: HAP1, HeLa and A431 whole cell lysates. |
| **特記事項** | ab236055 is the carrier-free version of **ab109021**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.<br><br>Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.<br><br>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br><br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## 製品の特性

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| **製品の状態** | Liquid |
| **保存方法** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **バッファー** | pH: 7.2<br>Constituent: PBS<br><br>ff |
| **キャリア・フリー** | はい |
| **精製度** | Protein A purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | EPR5299 |
| **アイソタイプ** | IgG |

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、 次のテスト済みアプリケーションにおけるab236055の使用に適用されます**

**アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。**

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **IHC-P** | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.<br>Heat up to 98 °C, below boiling, and then let cool for 10-20 min. |
| **IP** | | Use at an assay dependent concentration. |
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 25 kDa. |

## ターゲット情報

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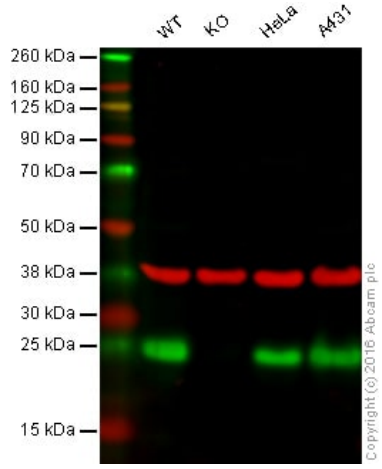
|---|---|
| **機能** | Converts guanine to guanosine monophosphate, and hypoxanthine to inosine monophosphate. Transfers the 5-phosphoribosyl group from 5-phosphoribosylpyrophosphate onto the purine. Plays a central role in the generation of purine nucleotides through the purine salvage pathway. |
| **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.<br>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



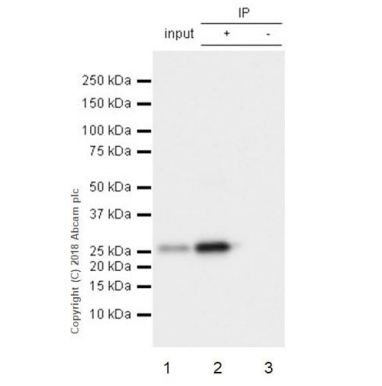

Western blot - Anti-HPRT antibody [EPR5299] - BSA and Azide free (ab236055)

**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 - **ab109021** observed at 25 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

**ab109021** 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. **ab109021** and **ab8245** (Mouse anti GAPDH loading control) were both diluted at 1/10,000 and incubated overnight at 4°C. 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.

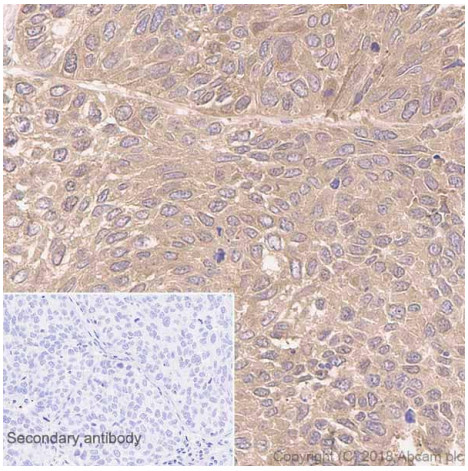
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109021**).




Immunoprecipitation - Anti-HPRT antibody [EPR5299] - BSA and Azide free (ab236055)

**ab109021** (purified) at 1:30 dilution (2µg) immunoprecipitating HPRT in Rat brain lysate.
Lane 1 (input): Rat brain lysate 10µg
Lane 2 (+): **ab109021** & Rat brain lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab109021** in Rat brain lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.

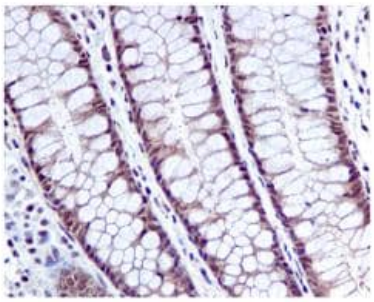
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109021**).




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HPRT antibody [EPR5299] - BSA and Azide free (ab236055)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung cancer tissue sections labeling HPRT with Purified **ab109021** at 1:150 dilution (1.19 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0)ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylinwas used as a counterstain

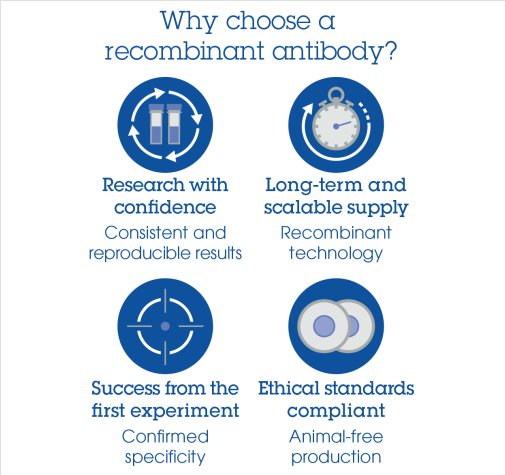
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109021**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HPRT antibody [EPR5299] - BSA and Azide free (ab236055)

Unpurified **ab109021** at 1/50 dilution staining HPRT in Human colon by Immunohistochemistry, Paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109021**).




Anti-HPRT antibody [EPR5299] - BSA and Azide free (ab236055)

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