

Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] ab125022

リコンビナント **RabMAb**

★★★★★ **3 Abreviews** **31 References** 画像数 6

製品の概要

| | |
|--------------|--|
| 製品名 | Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] |
| 製品の詳細 | Rabbit monoclonal [EPR6293] to Cytochrome P450 17A1/CYP17A1 |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: WB, IP, ICC/IF, Flow Cyt (Intra) 適用なし: IHC-P |
| 種交差性 | 交差種: Human |
| 免疫原 | Synthetic peptide within Human Cytochrome P450 17A1/CYP17A1 aa 100-200. The exact sequence is proprietary. Database link: P05093 |
| ポジティブ・コントロール | WB: Human adrenal gland, mouse and rat heart lysates, human fetal heart lysate, SK-OV-3, HeLa and Jurkat lysates; Flow Cyt (intra): HeLa cells ICC/IF: HeLa cells |
| 特記事項 | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . 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

| | |
|-------|--|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| バッファー | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA |
| 精製度 | Protein A purified |

| | |
|--------|---------|
| ポリ/モノ | モノクローナル |
| クローン名 | EPR6293 |
| 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ab125022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。

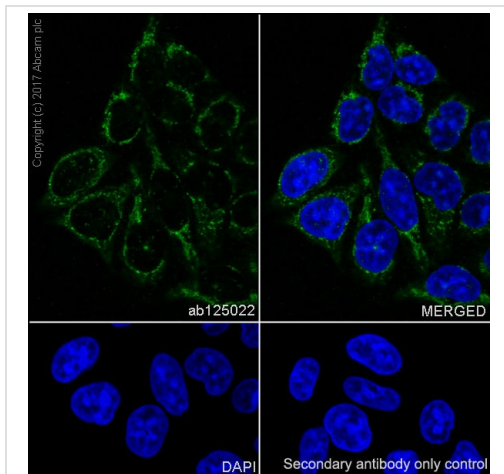
| アプリケーション | Abreviews | 特記事項 |
|------------------|-----------|--|
| WB | ★★★★★ (1) | 1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 57 kDa). |
| IP | | 1/10 - 1/100. |
| ICC/IF | ★★★★★ (1) | 1/100 - 1/250. |
| Flow Cyt (Intra) | | Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

追加情報 Is unsuitable for IHC-P.

ターゲット情報

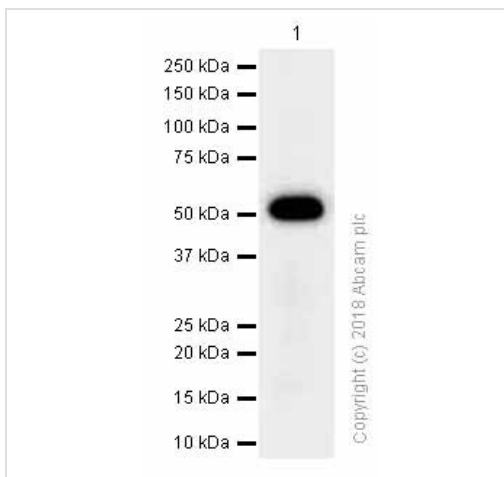
| | |
|-------|--|
| 機能 | Conversion of pregnenolone and progesterone to their 17-alpha-hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. Catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. Involved in sexual development during fetal life and at puberty. |
| パスウェイ | Lipid metabolism; steroid biosynthesis. |
| 関連疾患 | Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) [MIM:202110]. AH5 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: "salt wasting" (SW, the most severe type), "simple virilizing" (SV, less severely affected patients), with normal aldosterone biosynthesis, "non-classic form" or late onset (NC or LOAH), and "cryptic" (asymptomatic). |
| 配列類似性 | Belongs to the cytochrome P450 family. |
| 翻訳後修飾 | Phosphorylation is necessary for 17,20-lyase, but not for 17-alpha-hydroxylase activity. |
| 細胞内局在 | Membrane. |

画像



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022)

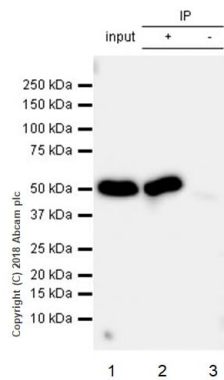
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Cytochrome P450 17A1/CYP17A1 with Purified ab125022 at 1:100 dilution (3.4 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with none. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022)

Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022) at 1/2000 dilution (purified) + Human fetal heart lysates at 15 µg

Predicted band size: 57 kDa



Immunoprecipitation - Anti-Cytochrome P450
17A1/CYP17A1 antibody [EPR6293] (ab125022)

ab125022 (purified) at 1:30 dilution (2µg) immunoprecipitating Cytochrome P450 17A1/CYP17A1 in Human fetal heart lysate.

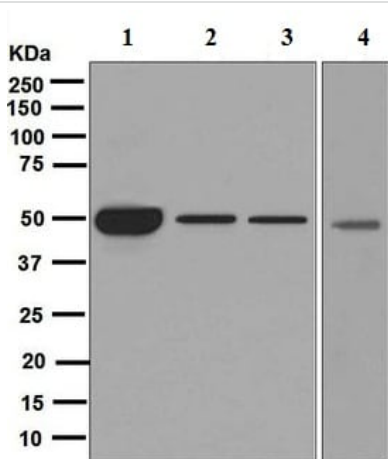
Lane 1 (input): Human fetal heart lysate 10µg

Lane 2 (+): ab125022 & Human fetal heart lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab125022 in Human fetal heart 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.



Western blot - Anti-Cytochrome P450
17A1/CYP17A1 antibody [EPR6293] (ab125022)

All lanes : Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022) at 1/1000 dilution

Lane 1 : Human adrenal gland lysate

Lane 2 : SK-OV-3 lysate

Lane 3 : HeLa lysate

Lane 4 : Jurkat lysate

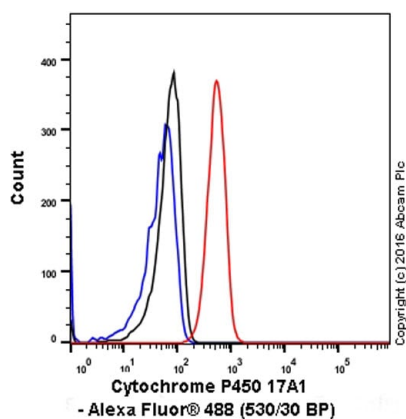
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 57 kDa

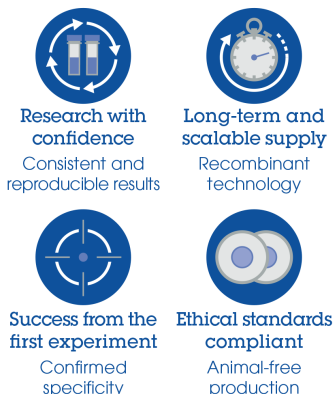
Observed band size: 55 kDa



Flow Cytometry (Intracellular) - Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Cytochrome P450 17A1/CYP17A1 with purified ab125022 at 1/220 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

Why choose a recombinant antibody?



Anti-Cytochrome P450 17A1/CYP17A1 antibody [EPR6293] (ab125022)

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