

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

重组 RabMAb

★★★★★ **3 Abreviews** **31 References** **6 图像**

概述

产品名称	Anti-Cytochrome P450 17A1/CYP17A1抗体[EPR6293]
描述	兔单克隆抗体[EPR6293] to Cytochrome P450 17A1/CYP17A1
宿主	Rabbit
经测试应用	适用于: WB, IP, ICC/IF, Flow Cyt (Intra) 不适用于: IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human Cytochrome P450 17A1/CYP17A1 aa 100-200. The exact sequence is proprietary. Database link: P05093
阳性对照	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
常规说明	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 .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
纯度	Protein A purified

克隆单克隆
克隆编号EPR6293
同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab125022于以下的经测试应用
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

应用说明Is unsuitable for IHC-P.

靶标

功能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.

通路Lipid metabolism; steroid biosynthesis.

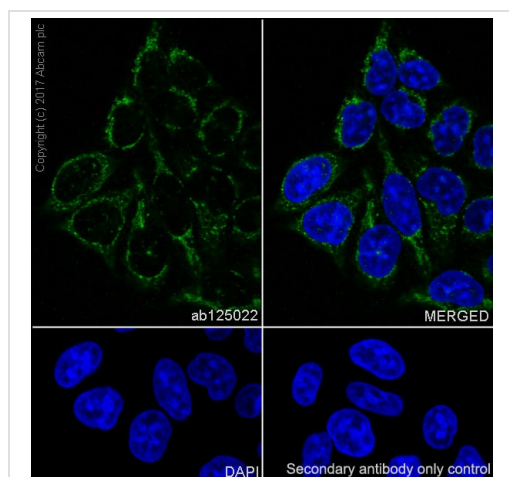
疾病相关Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) [MIM:202110]. AH5 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia 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).

序列相似性Belongs to the cytochrome P450 family.

翻译后修饰Phosphorylation is necessary for 17,20-lyase, but not for 17-alpha-hydroxylase activity.

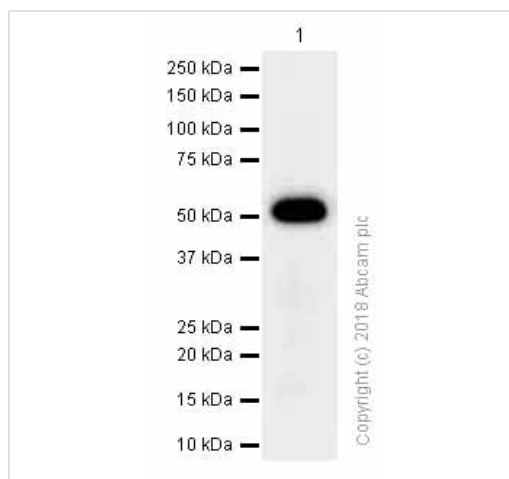
细胞定位Membrane.

图片



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

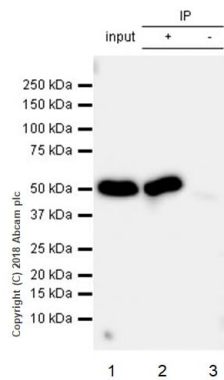
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Cytochrome P450 17A1/CYP17A1 with Purified ab125022 at 1:100 dilution (3.4 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained 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.

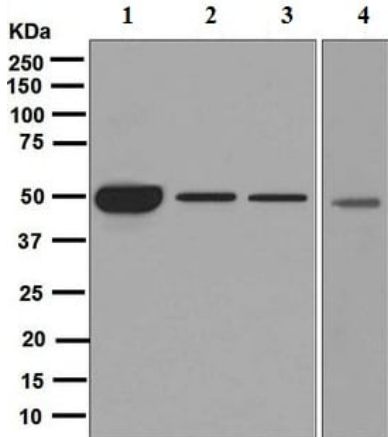
Lane 1 (input): Human fetal heart lysate 10µg

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

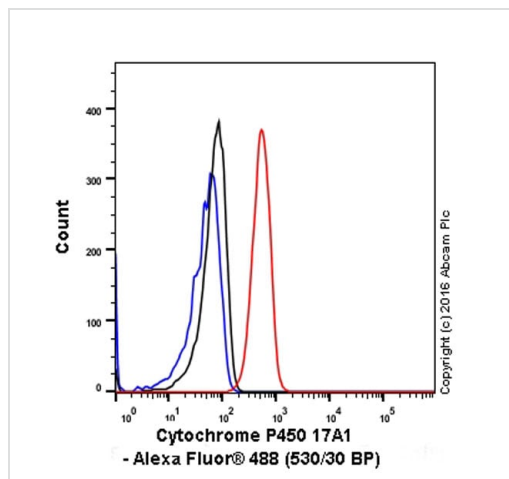
Lysates/proteins at 10 µg per lane.

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?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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