abcam

Product datasheet

Anti-COMT antibody [EPR6490] ab126618

敲除验证 重组 RabMAb

1 Abreviews 6 References 4 图像

概述

产品名称	Anti-COMT抗体[EPR6490]
描述	兔单克隆抗体[EPR6490] to COMT
宿主	Rabbit
经测试应用	**适用于:** WB **不适用于:** IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human COMT. Human COMT is a soluble isoform. Database link: **P21964**
阳性对照	WB: HEK-293T, HAP1, A431, MOLT4 and MCF7 cell lysates; Human fetal liver lysate. IHC-P: Human liver and kidney tissues.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR6490

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab126618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。

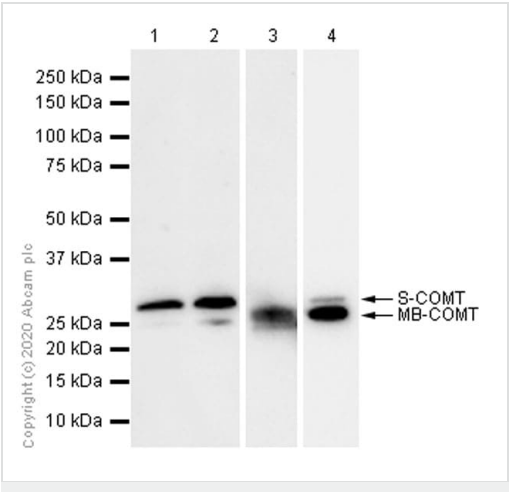
应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 24-30 kDa (predicted molecular weight: 30 kDa).

应用说明	Is unsuitable for IHC-P.

靶标

功能	Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.
组织特异性	Brain, liver, placenta, lymphocytes and erythrocytes.
序列相似性	Belongs to the mammalian catechol-O-methyltransferase family.
翻译后修饰	The N-terminus is blocked.
细胞定位	Cytoplasm and Cell membrane.

图片



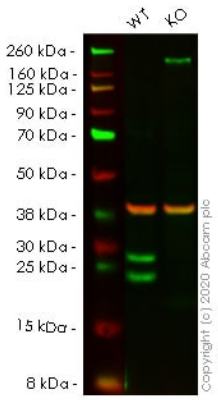
Western blot - Anti-COMT antibody [EPR6490] (ab126618)

All lanes : Anti-COMT antibody [EPR6490] (ab126618) at 1/1000 dilution (Purified)

Lane 1 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate
Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : Rat spleen lysate
Lane 4 : Rat kidney lysate

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 30 kDa



Western blot - Anti-COMT antibody [EPR6490] (ab126618)

All lanes : Anti-COMT antibody [EPR6490] (ab126618) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : COMT knockout HEK-293T cell lysate

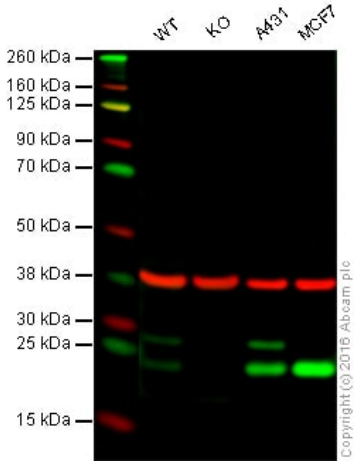
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 30 kDa
Observed band size: 24-28 kDa

Lanes 1-2: Merged signal (red and green). Green - ab126618 observed at 24-28 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab126618 Anti-COMT antibody [EPR6490] was shown to specifically react with COMT in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266537** (knockout cell lysate **ab257396**) was used. Wild-type and COMT knockout samples were subjected to SDS-PAGE. ab126618 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 Dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-COMT antibody [EPR6490] (ab126618)

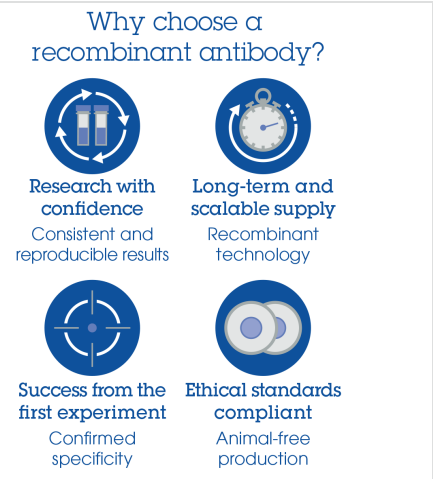
All lanes : Anti-COMT antibody [EPR6490] (ab126618) at 1/1000 dilution

Lane 1 : Wild type HAP1 whole cell lysate at 40 µg
Lane 2 : COMT knockout HAP1 whole cell lysate at 40 µg
Lane 3 : A431 whole cell lysate at 20 µg
Lane 4 : MCF7 whole cell lysate at 20 µg

Predicted band size: 30 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab126618 observed at 24/28 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab126618 was shown to specifically react with COMT when COMT knockout samples were used. Wild-type and COMT knockout samples were subjected to SDS-PAGE. Samples were incubated with ab126618 and **ab8245** (Mouse anti-GAPDH loading control) overnight at 4°C at 1/1000 and 1/10000 dilutions respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Anti-COMT antibody [EPR6490] (ab126618)

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