

Anti-Xanthine Oxidase antibody [EPR4605] ab109235

重组 RabMAb

★★★★★ **3 Abreviews** **24 References** **6 图像**

概述

产品名称	Anti-Xanthine Oxidase抗体[EPR4605]
描述	兔单克隆抗体[EPR4605] to Xanthine Oxidase
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human fetal liver, Mouse and Rat liver tissue lysates, 293T cell lysates, Human milk IHC-P: Human liver tissue
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号EPR4605

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab109235于以下的经测试应用

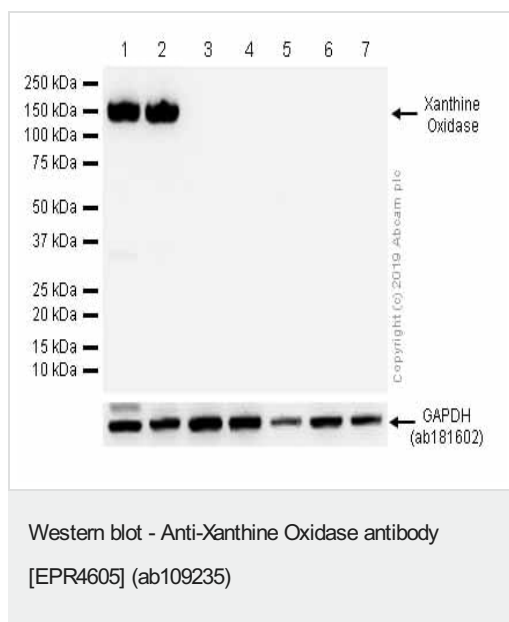
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 150 kDa (predicted molecular weight: 146 kDa).
IHC-P	★★★★★ (1)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

靶标

功能	Key enzyme in purine degradation. Catalyzes the oxidation of hypoxanthine to xanthine. Catalyzes the oxidation of xanthine to uric acid. Contributes to the generation of reactive oxygen species. Has also low oxidase activity towards aldehydes (in vitro).
组织特异性	Detected in milk (at protein level).
疾病相关	Defects in XDH are the cause of xanthinuria type 1 (XU1) [MIM:278300]. Xanthinuria is characterized by excretion of very large amounts of xanthine in the urine and a tendency to form xanthine stones. Uric acid is strikingly diminished in serum and urine. XU1 is due to isolated xanthine dehydrogenase. XU1 patients can metabolize allopurinol.
序列相似性	Belongs to the xanthine dehydrogenase family. Contains 1 2Fe-2S ferredoxin-type domain. Contains 1 FAD-binding PCMH-type domain.
翻译后修饰	Subject to partial proteolysis; this alters the enzyme from the dehydrogenase form (D) to the oxidase form (O). Contains sulfhydryl groups that are easily oxidized (in vitro); this alters the enzyme from the dehydrogenase form (D) to the oxidase form (O).
细胞定位	Cytoplasm. Peroxisome. Secreted.

图片



All lanes : Anti-Xanthine Oxidase antibody [EPR4605] (ab109235) at 1/10000 dilution (Purified)

Lane 1 : Mouse liver lysates

Lane 2 : Rat liver lysates

Lane 3 : Mouse heart lysates

Lane 4 : Mouse brain lysates

Lane 5 : Mouse lung lysates

Lane 6 : Mouse kidney lysates

Lane 7 : Mouse spleen lysates

Lysates/proteins at 20 µg per lane.

Secondary

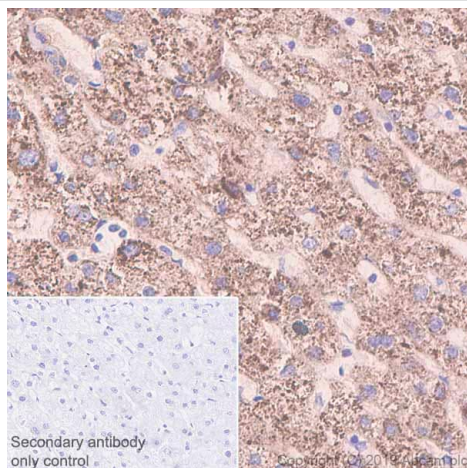
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 146 kDa

Observed band size: 146 kDa

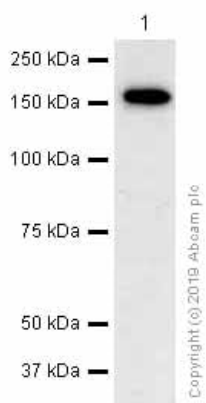
Blocking/Diluting Buffer and concentration: 5% NFDM/TBST

Xanthine Oxidase is abundantly expressed in liver and low in heart, brain and lung as what is described in PMID: 10462034



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Xanthine Oxidase antibody [EPR4605] (ab109235)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling Xanthine Oxidase with purified ab109235 at 1/100 dilution (2.3 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. Hematoxylin was used as a counterstain.



Western blot - Anti-Xanthine Oxidase antibody [EPR4605] (ab109235)

Anti-Xanthine Oxidase antibody [EPR4605] (ab109235) at 1/5000 dilution (Purified) + Human milk lysates at 15 µg

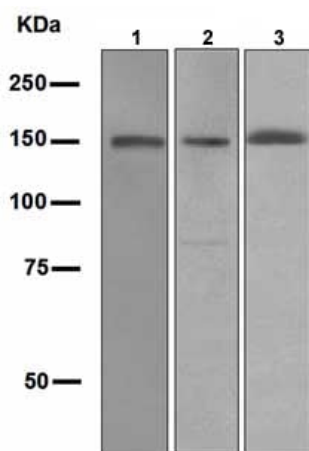
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 146 kDa

Observed band size: 146 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM/TBST



Western blot - Anti-Xanthine Oxidase antibody [EPR4605] (ab109235)

All lanes : Anti-Xanthine Oxidase antibody [EPR4605] (ab109235) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal liver lysate

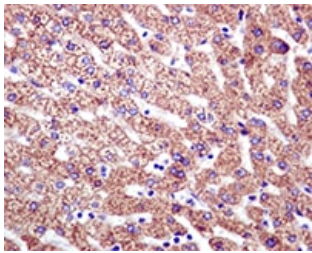
Lane 2 : 293T lysate

Lane 3 : Human milk lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 146 kDa

Secondary antibody - [anti-rabbit HRP \(ab6721\)](#)



Immunohistochemical analysis of Xanthine Oxidase expression in paraffin-embedded Human liver tissue using ab109235 (unpurified) at 1/100 dilution. Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Xanthine Oxidase antibody [EPR4605] (ab109235)

Why choose a recombinant antibody?



Anti-Xanthine Oxidase antibody [EPR4605]
(ab109235)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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