

# Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] ab109251

 **RabMAb**

★★★★★ **2 Abreviews** **42 References** **5 图像**

## 概述

产品名称	Anti-Adipose Triglyceride Lipase抗体[EPR3444(2)]
描述	兔单克隆抗体[EPR3444(2)] to Adipose Triglyceride Lipase
宿主	Rabbit
经测试应用	<b>适用于:</b> WB <b>不适用于:</b> Flow Cyt, ICC/IF or IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: 3T3-L1, A431 and A673 cell lysates, human heart, skeletal muscle and adipose tissue lysates. Mouse and rat heart tissue lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

## 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. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR3444(2)

同种型IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab109251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。

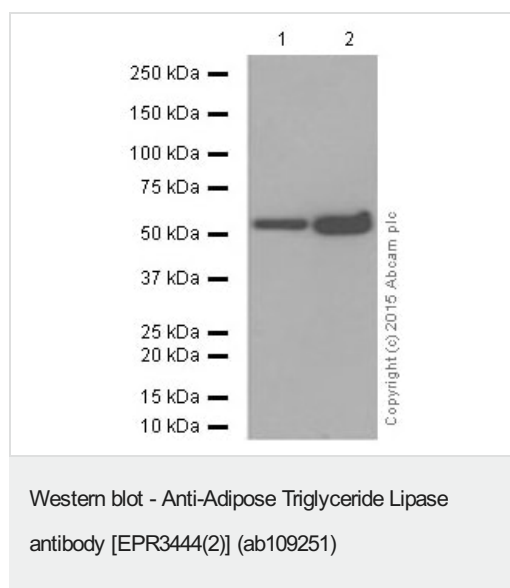
应用	Ab评论	说明
WB	★★★★★ (2)	1/1000 - 1/10000.

应用说明      Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

靶标

功能	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion.
组织特异性	Highest expression in adipose tissue. Also detected in heart, skeletal muscle, and portions of the gastrointestinal tract. Detected in normal retina and retinoblastoma cells. Detected in retinal pigment epithelium and, at lower intensity, in the inner segments of photoreceptors and in the ganglion cell layer of the neural retina (at protein level).
通路	Glycerolipid metabolism; triacylglycerol degradation.
疾病相关	Note=Genetic variations in PNPLA2 may be associated with risk of diabetes mellitus type 2. Defects in PNPLA2 are the cause of neutral lipid storage disease with myopathy (NLSDM) [MIM:610717]; also known as neutral lipid storage disease without ichthyosis. NSLDM is a neutral lipid storage disorder (NLSD) with myopathy but without ichthyosis. NLSDs are characterized by the presence of triglyceride-containing cytoplasmic droplets in leukocytes and in other tissues, including bone marrow, skin, and muscle. Individuals with NLSDM did not show obesity, in spite of a defect in triglyceride degradation in fibroblasts and in marked triglyceride storage in liver, muscles, and other visceral cells.
序列相似性	Contains 1 patatin domain.
发展阶段	Induced during differentiation of primary preadipocytes to adipocytes. Expression increased from fetal to adult in retinal pigment epithelium.
细胞定位	Lipid droplet. Cell membrane.

图片



**All lanes :** Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251) at 1/5000 dilution (purified)

**Lane 1 :** Mouse heart tissue lysate

**Lane 2 :** Rat heart tissue lysate

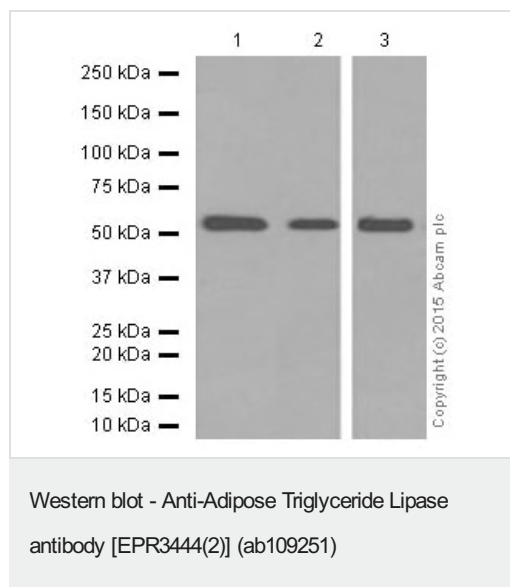
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit IgG (specific to the non-reduced form of IgG) at 1/1000 dilution

**Observed band size:** 54 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



**All lanes :** Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251) at 1/1000 dilution (purified)

**Lane 1 :** Human heart tissue lysate

**Lane 2 :** A431 whole cell lysate

**Lane 3 :** A673 whole cell lysate

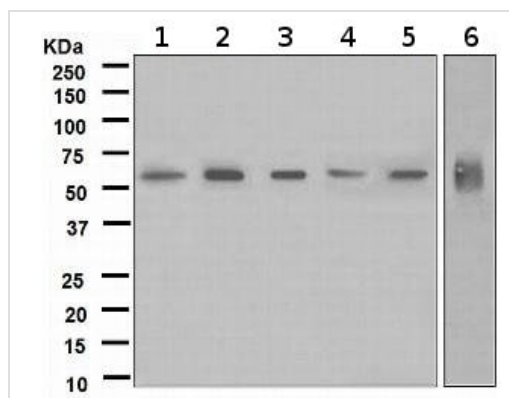
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit IgG (specific to the non-reduced form of IgG) at 1/1000 dilution

**Observed band size:** 54 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251)

**All lanes** : Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251) at 1/1000 dilution (unpurified)

**Lane 1** : 3T3-L1 lysate

**Lane 2** : A431 lysate

**Lane 3** : A673 lysate

**Lane 4** : Human heart tissue lysate

**Lane 5** : Human skeletal muscle tissue lysate

**Lane 6** : Human adipose tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Observed band size:** 54 kDa

Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology

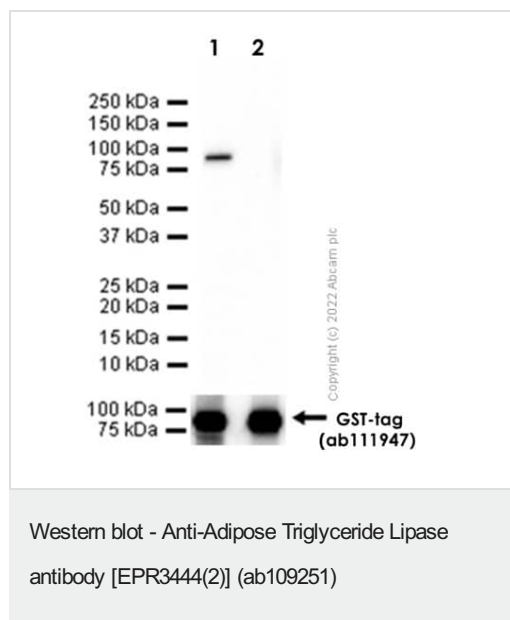


**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251)



**All lanes :** Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] (ab109251) at 1/1000 dilution

**Lane 1 :** GST tagged Recombinant Human Adipose Triglyceride Lipase (PNPLA2) protein (Full length, 82 KDa)

**Lane 2 :** GST tagged Recombinant Human KLF4 protein (Full length, 81 KDa)

#### Secondary

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

Performed under reducing conditions.

**Observed band size:** 82 kDa

**Exposure time:** 5 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

Gel type: 4-20% gradient gel (SDS-PAGE)

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

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