

# Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] - BSA and Azide free ab239961

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR3444(2)] to Adipose Triglyceride Lipase - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab239961 is the carrier-free version of <a href="#">ab109251</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3444(2)
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab239961 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 54 kDa (predicted molecular weight: 55 kDa).

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

## Target

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<b>Function</b>	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.
<b>Tissue specificity</b>	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).
<b>Pathway</b>	Glycerolipid metabolism; triacylglycerol degradation.
<b>Involvement in disease</b>	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 (NLSM) [MIM:610717]; also known as neutral lipid storage disease without ichthyosis. NLSM is a neutral lipid storage disorder (NLS) with myopathy but without ichthyosis. NLSs are characterized by the presence of triglyceride-containing cytoplasmic droplets in leukocytes and in other tissues, including bone marrow, skin, and muscle. Individuals with NLSM 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.
<b>Sequence similarities</b>	Contains 1 patatin domain.

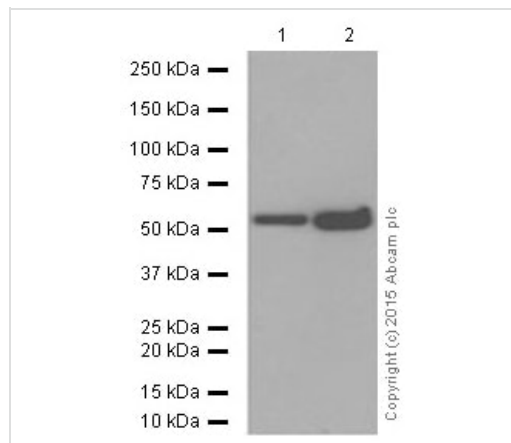
## Developmental stage

Induced during differentiation of primary preadipocytes to adipocytes. Expression increased from fetal to adult in retinal pigment epithelium.

## Cellular localization

Lipid droplet. Cell membrane.

## Images



Western blot - Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] - BSA and Azide free (ab239961)

**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

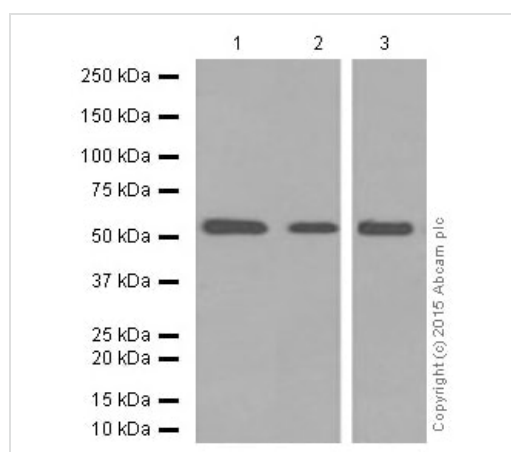
**All lanes :** HRP-conjugated goat anti-rabbit IgG (specific to the non-reduced form of IgG) at 1/1000 dilution

**Predicted band size:** 55 kDa

**Observed band size:** 54 kDa

This data was developed using [ab109251](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.



Western blot - Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] - BSA and Azide free (ab239961)

**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

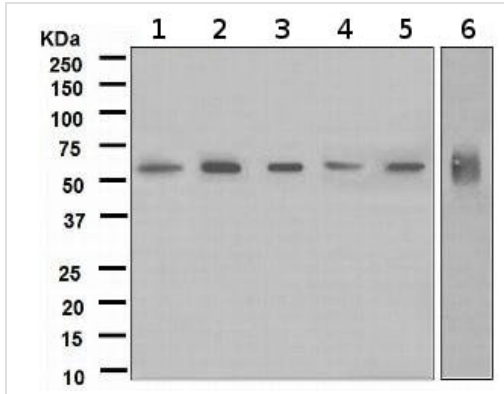
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Western blot - Anti-Adipose Triglyceride Lipase antibody [EPR3444(2)] - BSA and Azide free (ab239961)

**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

**Predicted band size:** 55 kDa

**Observed band size:** 54 kDa

This data was developed using [ab109251](#), the same antibody clone in a different buffer formulation.

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)] - BSA and Azide free (ab239961)

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

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