

# Anti-15 Lipoxygenase 1 antibody [EPR22138] ab244205

重组 RabMAb

[10 References](#) [11 图像](#)

### 概述

产品名称	Anti-15 Lipoxygenase 1 抗体[EPR22138]
描述	兔单克隆抗体[EPR22138] to 15 Lipoxygenase 1
宿主	Rabbit
经测试应用	<b>适用于:</b> ICC/IF, WB, IHC-Fr, IHC-P <b>不适用于:</b> IP
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HEK-293 transfected with 15 Lipoxygenase 1 (WT) expression vector containing a myc-His-tag®, whole cell lysate; Mouse and rat lung lysates; Human colon lysate. IHC-P: Human colon and bronchus tissues; Mouse colon tissue; Rat bronchus tissue. IHC-Fr: Mouse colon tissue. ICC/IF: MCF7 and PC-12 cells.
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® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® 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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号 EPR22138

同种型 IgG

## 应用

**The Abpromise guarantee** **Abpromise™** 承诺保证使用 ab244205 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
ICC/IF		1/50.
WB		1/1000. Detects a band of approximately 75 kDa (predicted molecular weight: 75 kDa).
IHC-Fr		1/500. Perform heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明 Is unsuitable for IP.

## 靶标

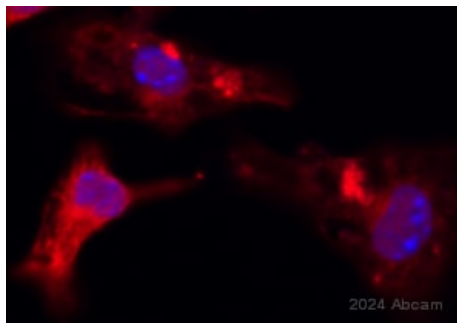
**功能** Converts arachidonic acid to 15S-hydroperoxyeicosatetraenoic acid. Also acts on C-12 of arachidonate as well as on linoleic acid.

**通路** Lipid metabolism; leukotriene D4 biosynthesis.

**序列相似性** Belongs to the lipoxygenase family.  
Contains 1 lipoxygenase domain.  
Contains 1 PLAT domain.

**细胞定位** Cytoplasm.

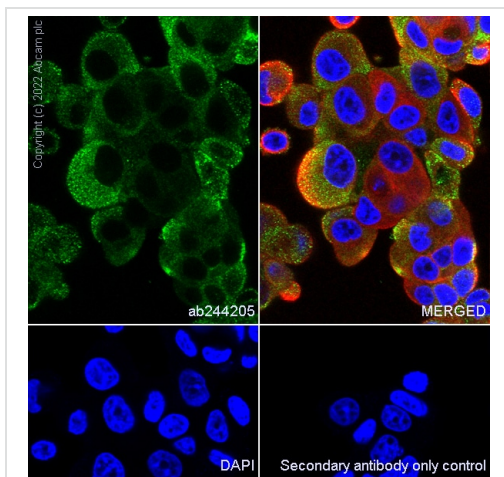
## 图片



Immunocytochemistry - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

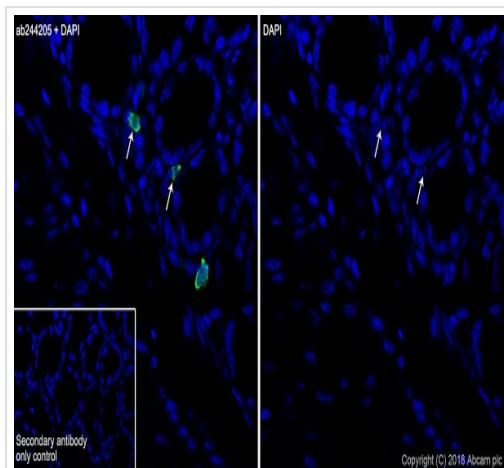
This image is courtesy of an Abreview submitted by Carter Yang

Immunocytochemistry analysis of formaldehyde-fixed 0.1% triton x100 permeabilized mouse macrophage cells staining with ab244205 at 1/200 dilution. Secondary antibody was Alexa Fluor™ 594 Anti-Rb at 1/500 dilution. Samples were incubated with the primary antibody for 1 hour at 25°C. Blocking was done using 5% BSA for 1 hour at 25°C.



Immunocytochemistry/ Immunofluorescence - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (human breast adenocarcinoma epithelial cell) cells labelling 15 Lipoxygenase 1 with primary antibody anti-15 Lipoxygenase 1 (ab244205) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150081**) secondary antibody at 1/1000 dilution. Confocal image showing cytoplasmic staining in MCF7 cells. Anti-alpha Tubulin antibody (DM1A) - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) was used to counterstain tubulin at 1/200 dilution. The nuclear counter stain is DAPI (blue).

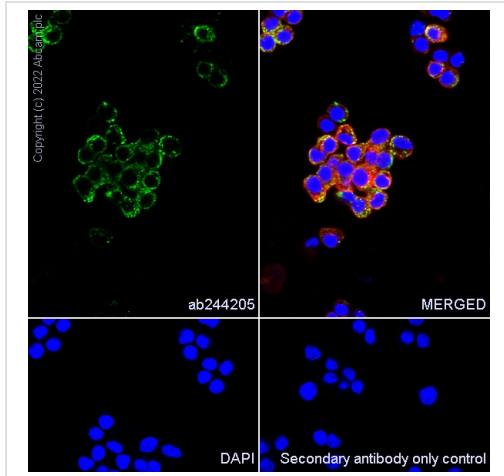


Immunohistochemistry (Frozen sections) - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse colon tissue labeling 15 Lipoxygenase 1 with ab244205 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Positive staining in eosinophils of mouse colon (PMID:23503644).

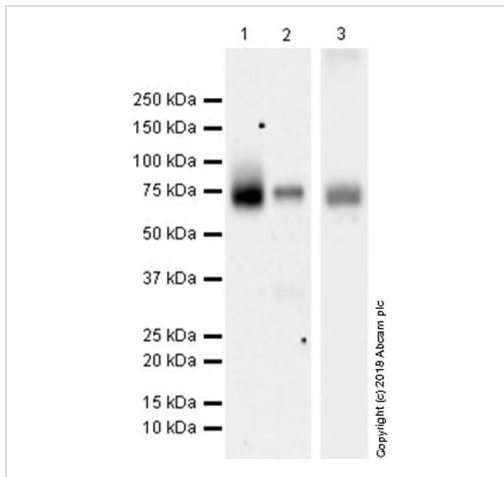
The nuclear counter stain is DAPI (blue). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-12 (rat adrenal gland pheochromocytoma small irregularly shaped cells) cells labelling 15 Lipoxygenase 1 with primary antibody anti-15 Lipoxygenase 1 (ab244205) at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150081**) secondary antibody at 1/1000 dilution. Confocal image showing cytoplasmic staining in PC-12 cells. Anti-alpha Tubulin antibody (DM1A) - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) was used to counterstain tubulin at 1/200 dilution. The nuclear counter stain is DAPI (blue).



Western blot - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

**All lanes :** Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205) at 1/1000 dilution

**Lane 1 :** Mouse lung lysate

**Lane 2 :** Rat lung lysate

**Lane 3 :** Human colon lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

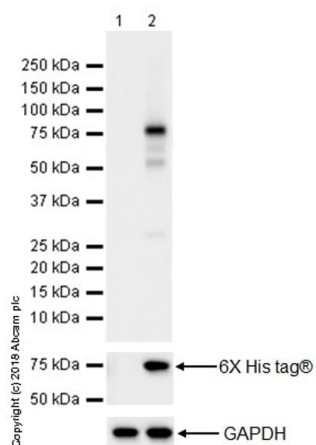
**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time :** Lanes 1 and 2: 3 minutes; Lane 3: 15 seconds.

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID:30118527; PMID:1662607).



Western blot - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

**All lanes** : Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205) at 1/1000 dilution

**Lane 1** : HEK-293 (human epithelial cell line from embryonic kidney) transfected with an empty vector (vector control), containing a myc-His-tag®, whole cell lysate

**Lane 2** : HEK-293 transfected with 15 Lipoxygenase 1 (WT) expression vector containing a myc-His-tag®, whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

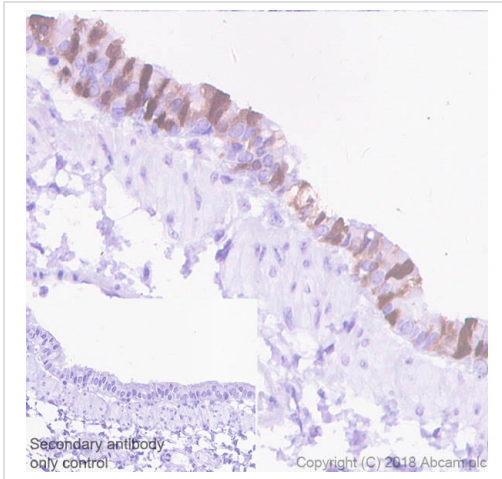
**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time:** 3 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

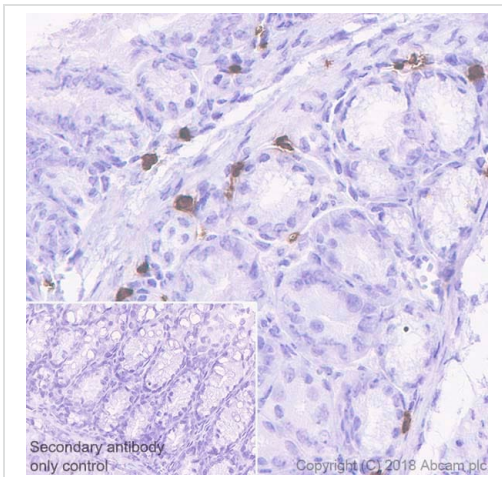
The molecular weight observed is consistent with what has been described in the literature (PMID:30118527; PMID:1662607).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunohistochemical analysis of paraffin-embedded rat bronchus tissue labeling 15 Lipoxygenase 1 with ab244205 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in epithelial cells of rat bronchus (PMID:24036245; PMID:21831839). Counter stained with hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

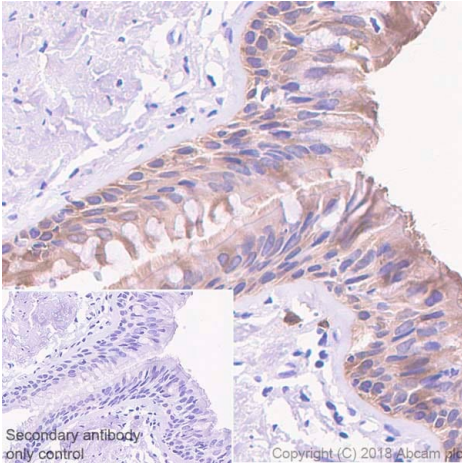
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling 15 Lipoxygenase 1 with ab244205 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in eosinophils of mouse colon (PMID:30118527; PMID:23503644). Counter stained with hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

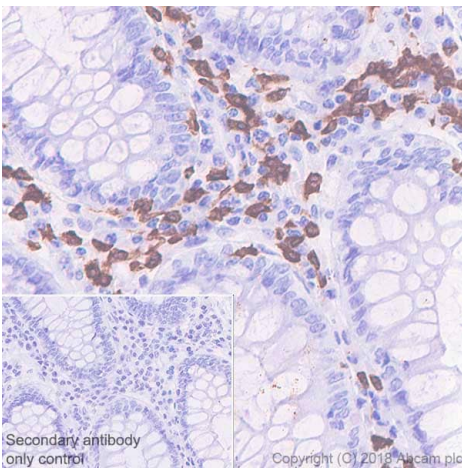
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunohistochemical analysis of paraffin-embedded human bronchus tissue labeling 15 Lipoxygenase 1 with ab244205 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in epithelial cells of human bronchus (PMID:24036245; PMID:21831839). Counter stained with hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [EPR22138] (ab244205)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling 15 Lipoxygenase 1 with ab244205 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in eosinophils of human colon (PMID:30118527; PMID:23503644). Counter stained with hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

### 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-15 Lipoxygenase 1 antibody [EPR22138]  
(ab244205)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors