

## Product datasheet

### Anti-POMC antibody [EPR22534-165] ab254257

Recombinant RabMAb

★★★★★ 1 Abreviews 1 References 11 Images

#### Overview

Product name	Anti-POMC antibody [EPR22534-165]
Description	Rabbit monoclonal [EPR22534-165] to POMC
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P, IHC-Fr, ICC/IF <b>Unsuitable for:</b> IP
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse, human and rat pituitary tissue lysate. IHC-P: Mouse pituitary and spleen; human and rat pituitary tissue. IHC-Fr: Mouse and rat pituitary and liver tissue. ICC/IF: AtT-20 cells.
General notes	<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

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22534-165

IsotypeIgG

Applications

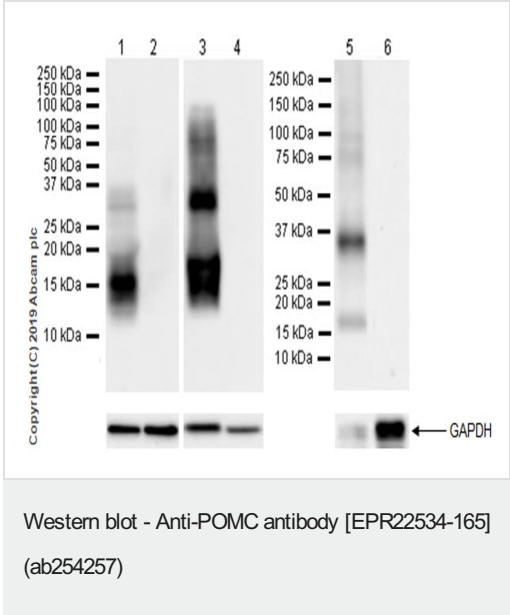
The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab254257 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 35 kDa (predicted molecular weight: 29 kDa).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr	★★★★★ (1)	1/500.
ICC/IF		1/100.

Application notesIs unsuitable for IP.

Target

Images



**Lanes 1-4 :** Anti-POMC antibody [EPR22534-165] (ab254257) at 1/5000 dilution

**Lanes 5-6 :** Anti-POMC antibody [EPR22534-165] (ab254257) at 1/1000 dilution

**Lane 1 :** Mouse pituitary lysate

**Lane 2 :** Mouse liver lysate

**Lane 3 :** Human pituitary lysate

**Lane 4 :** Human liver lysate

**Lane 5 :** Rat pituitary lysate

**Lane 6 :** Rat liver lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

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

**Predicted band size:** 29 kDa

**Observed band size:** 35, 16 kDa

Exposure time:

Lanes 1-2: 3 seconds;

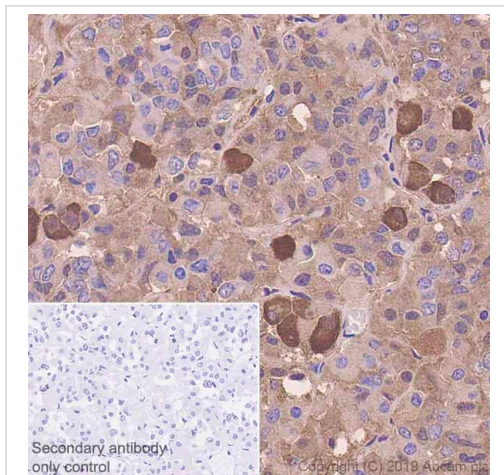
Lanes 3-4: 10 seconds;

Lanes 5-6: 32 seconds

Blocking buffer and concentration: 5% NFDM/TBST

**Negative control:** liver (lanes 2, 4 and 6, PMID: 10395956)

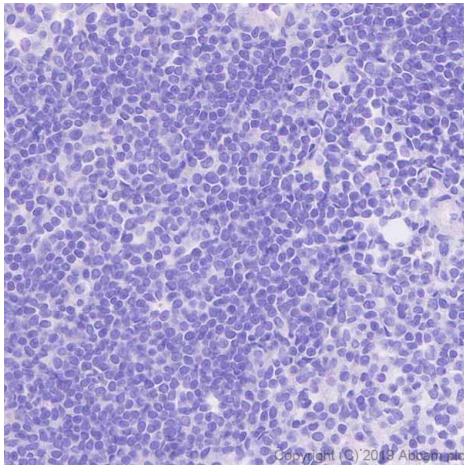
POMC is a glycoprotein and can be processed into 16kDa N-POMC. The molecular weight observed is consistent with what has been described in the literature (PMID 1814247, PMID 26880796, PMID 20639461).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

Immunohistochemical analysis of paraffin-embedded human pituitary tissue labeling POMC with ab254257 at 1/4000 dilution at room temperature for 30 mins, followed by ready to use rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on human pituitary is observed (PMID: 21622576). Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was performed. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

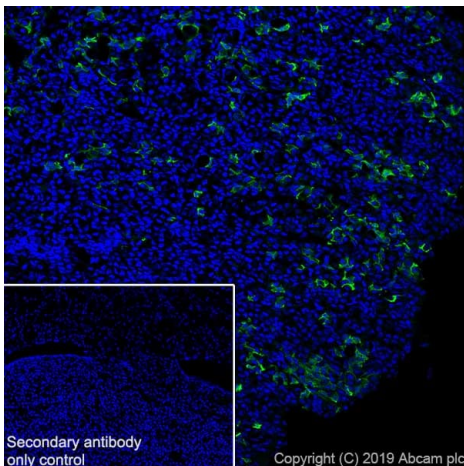
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

**Negative control: No staining on mouse spleen (PMID: 10395956)**

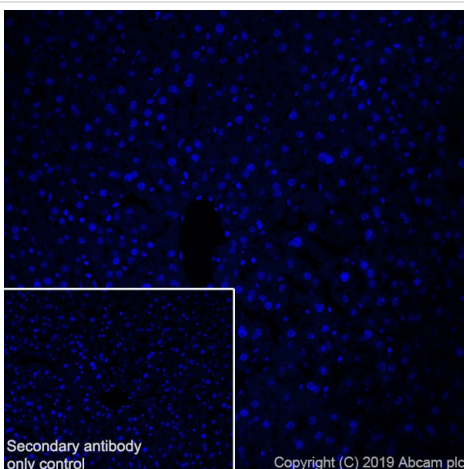
Immunohistochemical analysis of paraffin-embedded mouse pituitary tissue labeling POMC with ab254257 at 1/4000 dilution at room temperature for 30 mins, followed by ready to use rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was performed. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument.



Immunohistochemistry (Frozen sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

Immunohistochemical analysis of 0.2% Triton X-100 permeabilized, 4% PFA fixed mouse pituitary tissue labeling POMC with ab254257 at 1/500 dilution, followed by AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. DAPI was used as nuclear counterstain. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20) was performed. Positive staining on mouse pituitary (PMID: 18601691).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution



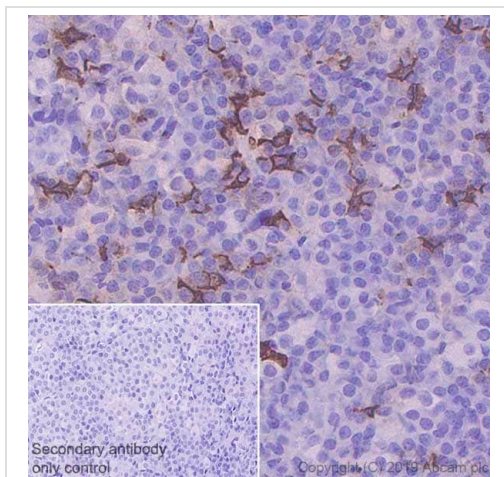
Immunohistochemistry (Frozen sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

**Negative control: No stain on liver (PMID: 14578285)**

Immunohistochemical analysis of 0.2% Triton X-100 permeabilized, 4% PFA fixed mouse liver tissue labeling POMC with ab254257 at 1/100 dilution, followed by AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. DAPI was used as nuclear counterstain. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20) was performed. No staining on mouse liver.

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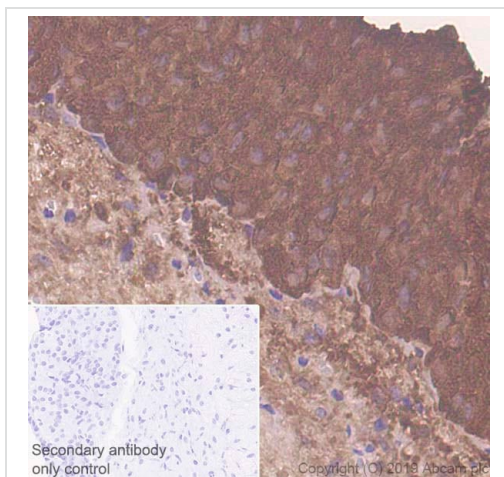




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

Immunohistochemical analysis of paraffin-embedded rat pituitary tissue labeling POMC with ab254257 at 1/4000 dilution at room temperature for 30 mins, followed by ready to use rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on rat pituitary is observed (PMID: 21622576). Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was performed. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

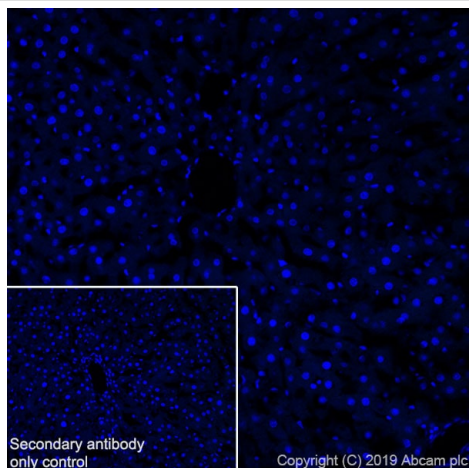
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



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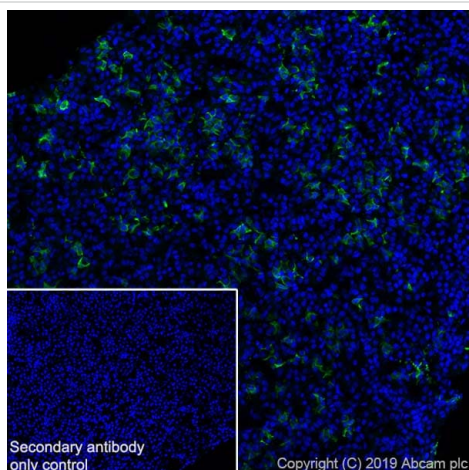


Immunohistochemistry (Frozen sections) - Anti-POMC antibody [EPR22534-165] (ab254257)

### Negative control: No stain on liver (PMID: 14578285)

Immunohistochemical analysis of 0.2% Triton X-100 permeabilized, 4% PFA fixed rat liver tissue labeling POMC with ab254257 at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. DAPI was used as nuclear counterstain. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20) was performed. No staining on rat liver.

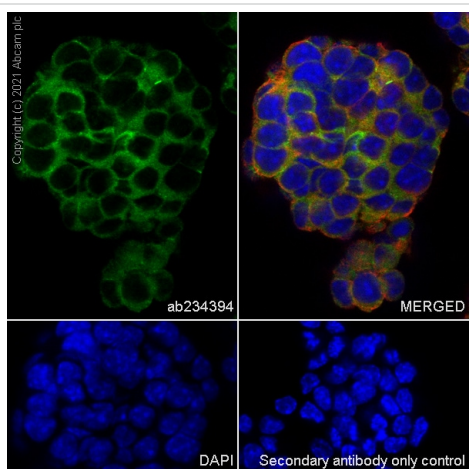
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Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-POMC antibody [EPR22534-165] (ab254257)

Immunocytochemical analysis of 100% methanol fixed, 0.1% TritonX-100 permeabilised AtT-20 cells labeling POMC with ab254257 at 1/100 dilution. [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) was used as a secondary antibody at 1/1000 dilution. Counterstained with [ab195889](#) Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution. Nuclear staining: DAPI.

Confocal image showing cytoplasmic staining in AtT-20 cell line

### 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-POMC antibody [EPR22534-165] (ab254257)

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

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