Product name: Anti-POMC antibody [EPR17571] ab210605

Description: Rabbit monoclonal [EPR17571] to POMC

Host species: Rabbit

Tested applications: Suitable for: IP, IHC-P, WB

Species reactivity: Reacts with: Mouse, Rat, Human, Recombinant fragment

Immunogen: Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control: WB: HEK-293T transfected with POMC whole cell lysate; rat and mouse pituitary lysates; human ACTH recombinant protein. IHC-P: Human, mouse and rat pituitary tissues. IP: Rat pituitary whole cell lysate.

General notes: This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Form: Liquid


Storage buffer: pH: 7.2
Preservative: 0.01% Sodium azide
 Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity: Protein A purified

Clonality: Monoclonal

Clone number: EPR17571
Isotype

IgG

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab210605 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
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<th>Notes</th>
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<td>IP</td>
<td></td>
<td>1/80.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/16000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<tr>
<td>WB</td>
<td></td>
<td>1/5000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).</td>
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Target

Images

Immunohistochemical analysis of paraffin-embedded mouse pituitary tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasmic staining on mouse pituitary is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Immunohistochemical analysis of paraffin-embedded rat pituitary tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on rat pituitary is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Anti-POMC antibody [EPR17571] (ab210605) at 1/1000 dilution + human ACTH recombinant protein at 0.01 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 29 kDa
Observed band size: 18 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Human ACTH recombinant peptide contains 3*aa138-176 with His-tag.

This product is capable of recognizing the ACTH peptide.
Anti-POMC antibody [EPR17571] (ab210605) at 1/5000 dilution + mouse pituitary lysate at 10 µg

**Secondary**

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

**Predicted band size:** 29 kDa

**Observed band size:** 29 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

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Anti-POMC antibody [EPR17571] (ab210605) at 1/1000 dilution + rat pituitary lysate at 10 µg

**Secondary**

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

**Predicted band size:** 29 kDa

**Observed band size:** 29 kDa

**Exposure time:** 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.
Immunoprecipitation - Anti-POMC antibody [EPR17571] (ab210605)

ab210605 at 1/80 immunoprecipitating POMC in Rat pituitary whole cell lysate observed at 29 KDa (lanes 1 and 2).

Lane 1 (input): Rat pituitary whole cell lysate 10μg
Lane 2 (+): ab210605 + Rat pituitary whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab210605 in Rat pituitary whole cell lysate

For western blotting, ab210605 at 1/1000 dilution and VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution.

Blocking/Diluting buffer and concentration: 5% NFDM/TBST.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMC antibody [EPR17571] (ab210605)

Immunohistochemical analysis of paraffin-embedded human pituitary tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasmic staining on human pituitary is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Western blot - Anti-POMC antibody [EPR17571] (ab210605)

All lanes : Anti-POMC antibody [EPR17571] (ab210605) at 1/10000 dilution

Lane 1: Untransfected HEK-293T (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 2: HEK-293T (Human epithelial cell line from embryonic kidney) transfected with POMC 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:** 29 kDa  
**Observed band size:** 55 kDa

**Exposure time:** 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](ab97051)) at 1/500 dilution.

Negative staining on mouse kidney.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Western blot** - Anti-POMC antibody [EPR17571] (ab210605)

**Predicted band size:** 29 kDa  
**Observed band size:** 29 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-POMC antibody [EPR17571] (ab210605) at 1/5000 dilution + rat pituitary lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](ab97051)) at 1/100000 dilution

**Predicted band size:** 29 kDa  
**Observed band size:** 29 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.
Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Negative staining on human kidney.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Negative staining on human colon cancer.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling POMC with ab210605 at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Negative staining on rat liver.

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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