abcam

Product datasheet

# Anti-PAX8 antibody [EPR23508-20] ab239363

重组 RabMAb

1 References 14 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-PAX8抗体[EPR23508-20] |
| **描述** | 兔单克隆抗体[EPR23508-20] to PAX8 |
| **宿主** | Rabbit |
| **经测试应用** | **适用于:** WB, IP, IHC-Fr, Flow Cyt (Intra), ChIC/CUT&RUN-seq, ICC/IF, IHC-P<br>**不适用于:** ChIP |
| **种属反应性** | **与反应:** Mouse, Human |
| **免疫原** | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| **阳性对照** | WB: NIH:OVCAR-3 and SK-OV-3 whole cell lysates, mouse E18 kidney tissue lysates. IHC-P: Mouse thyroid tissue, human thyroid and ovarian cancer tissue. IHC/FR: Mouse kidney tissue. ICC/IF: NIH:OVCAR-3 and SK-OV-3 whole cells. Flow Cyt (intra): NIH:OVCAR-3 whole cells. |
| **常规说明** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## 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: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **纯度** | Protein A purified |
| **克隆** | 单克隆 |
| **克隆编号** | EPR23508-20 |

**同种型** IgG

## 应用

**The Abpromise guarantee** **Abpromise™承诺保证使用ab239363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** | | 1/1000. Predicted molecular weight: 48 kDa. |
| **IP** | | Use at an assay dependent concentration. |
| **IHC-Fr** | | 1/50. |
| **Flow Cyt (Intra)** | | 1/500. |
| **ChIC/CUT&RUN-seq** | | Use at an assay dependent concentration. |
| **ICC/IF** | | 1/100. |
| **IHC-P** | | 1/2000. |

**应用说明** Is unsuitable for ChIP.

## 靶标

**功能** Transcription factor for the thyroid-specific expression of the genes exclusively expressed in the thyroid cell type, maintaining the functional differentiation of such cells.

**组织特异性** Expressed in the excretory system, thyroid gland and Wilms tumors.

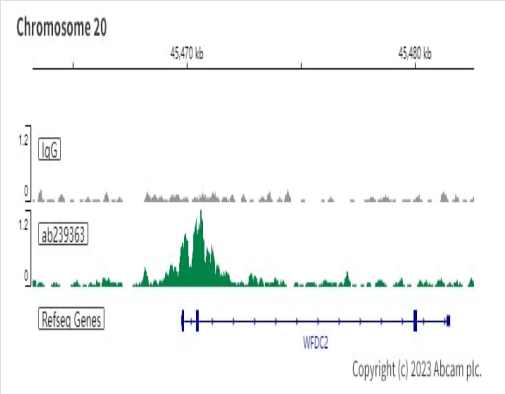
**疾病相关** Defects in PAX8 are the cause of congenital hypothyroidism non-goitrous type 2 (CHNG2) [MIM:218700]. CHNG2 is a disease characterized by thyroid dysgenesis, the most frequent cause of congenital hypothyroidism, accounting for 85% of case. The thyroid gland can be completely absent (athyreosis), ectopically located and/or severely hypoplastic. Ectopic thyroid gland is the most frequent malformation, with thyroid tissue being found most often at the base of the tongue.

**序列相似性** Contains 1 paired domain.

**发展阶段** In developing excretory system, during thyroid differentiation and in adult thyroid.

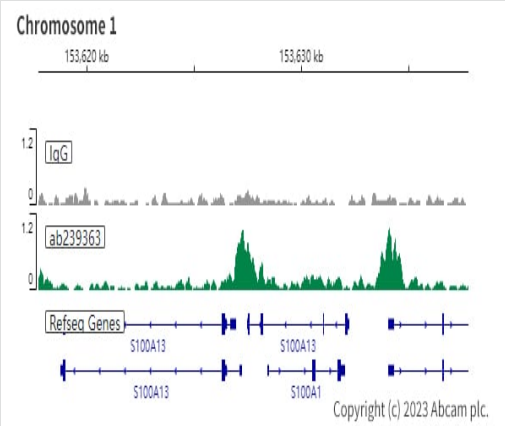
**细胞定位** Nucleus.

## 图片




ChIC/CUT&RUN sequencing - Anti-PAX8 antibody [EPR23508-20] (ab239363)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/µL, 2.5 x 10^5 NIH:OVCAR-3 (Human ovary adenocarcinoma epithelial cell) cells and 5 µg of ab239363 [EPR23508-20]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control **ab172730** is also shown. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.

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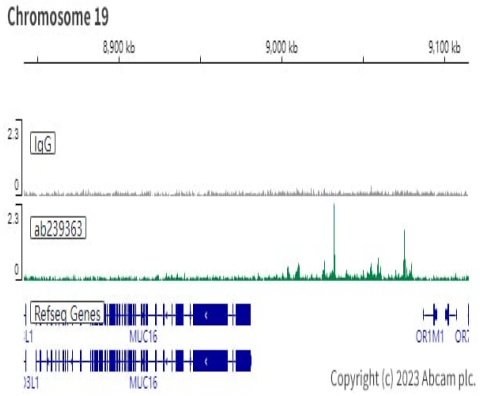


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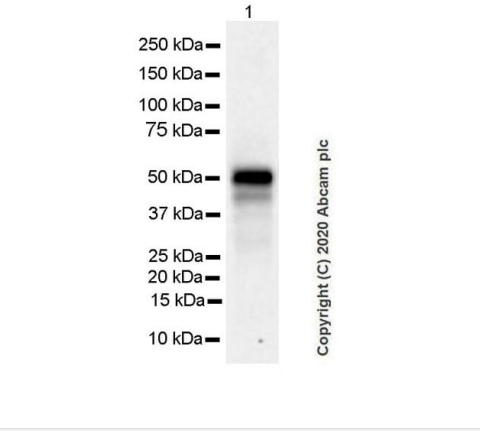



Western blot - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Anti-PAX8 antibody [EPR23508-20] (ab239363) at 1/1000 dilution + Mouse E18 kidney tissue lysate at 60 µg

**Secondary**

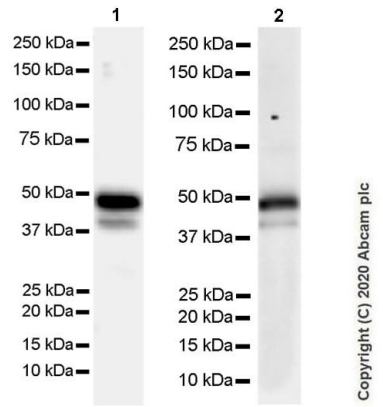
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

**Predicted band size:** 48 kDa

Blocking and diluting buffer and concentration: The molecular weight observed is consistent with what has been described in the literature (PMID: 21602887)

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes




Western blot - Anti-PAX8 antibody [EPR23508-20] (ab239363)

**All lanes :** Anti-PAX8 antibody [EPR23508-20] (ab239363) at 1/1000 dilution

**Lane 1 :** SK-OV-3 (human ovarian cancer epithelial cell), whole cell lysate
**Lane 2 :** NIH:OVCAR-3 (human ovary adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

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

**Predicted band size:** 48 kDa

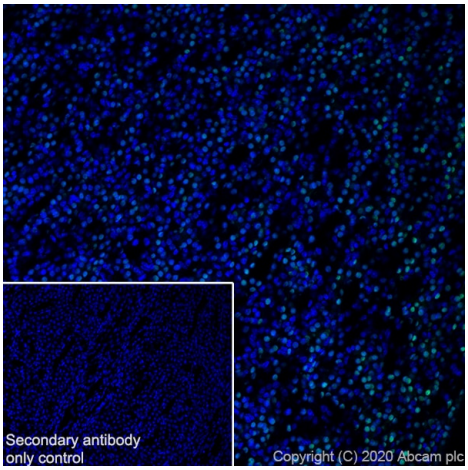
Blocking and diluting buffer and concentration: The antibody detects isoform of PAX8

The molecular weight observed is consistent with what has been described in the literature (PMID: 21602887)

This blot was developed using a higher sensitivity ECL substrate.

Fresh lysate was used in this Lane 2.

Exposure time: Lane 1: 127 seconds Lane 2: 59 seconds

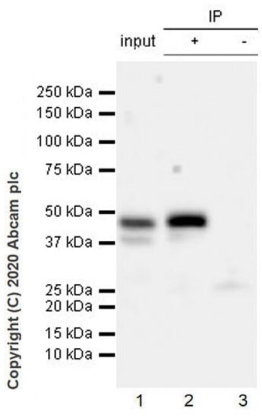



Immunohistochemistry (Frozen sections) - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse kidney tissue labeling PAX8 with ab239363 at 1/50 dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Nuclear staining on mouse kidney. is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488)at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).




Immunoprecipitation - Anti-PAX8 antibody [EPR23508-20] (ab239363)

PAX8 was immunoprecipitated from 0.35 mg SK-OV-3 (human ovarian cancer epithelial cell), whole cell lysate 10 ug with ab239363 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab239363 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.
Lane 1: SK-OV-3 (human ovarian cancer epithelial cell), whole cell lysate 10 ug

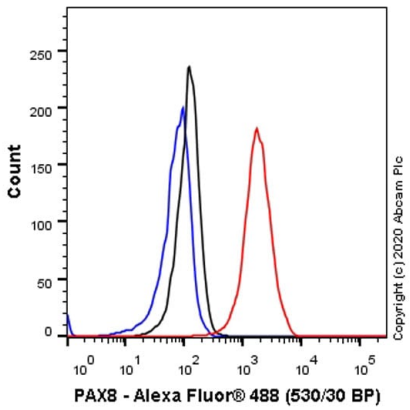
Lane 2: abab239363 IP in SK-OV-3 whole cell lysate

Lane 3:Rabbit monoclonal IgG (**ab172730**) instead of ab239363 in SK-OV-3 whole cell lysate

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

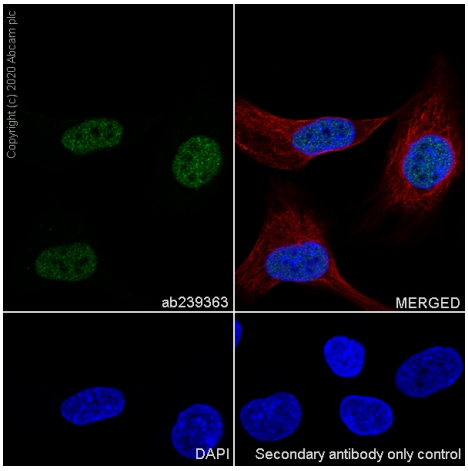
Exposure time: 49 seconds

This blot was developed using a higher sensitivity ECL substrate.




Flow Cytometry (Intracellular) - Anti-PAX8 antibody [EPR23508-20] (ab239363)

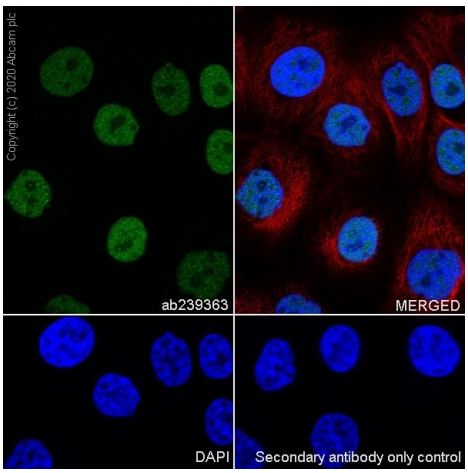
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH:OVCAR-3 (human ovary adenocarcinoma epithelial cell) cells labelling PAX8 with ab239363 at 1/500 dilution (Red) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.




Immunocytochemistry/ Immunofluorescence - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized SK-OV-3 (human ovarian cancer epithelial cell) cells labelling PAX8 with ab239363 at 1/100 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in SK-OV-3 cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

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

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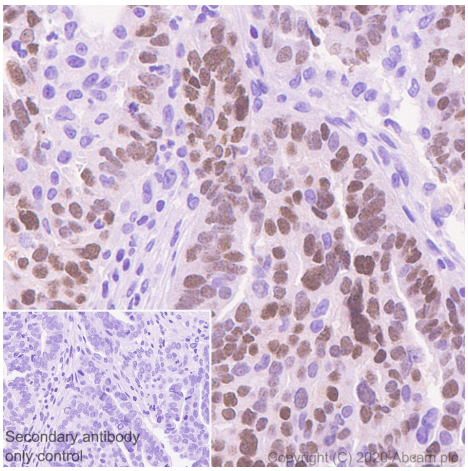
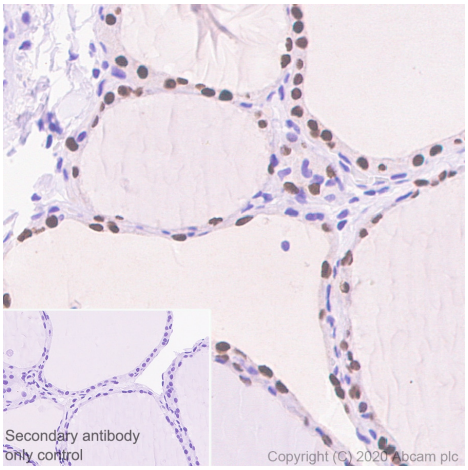



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue labeling PAX8 with ab239363 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining in human ovarian cancer (PMID: 21317881). The section was incubated with ab239363 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Immunohistochemical analysis of paraffin-embedded human thyroid tissue labeling PAX8 with ab239363 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining in human thyroid (PMID: 21317881). The section was incubated with ab239363 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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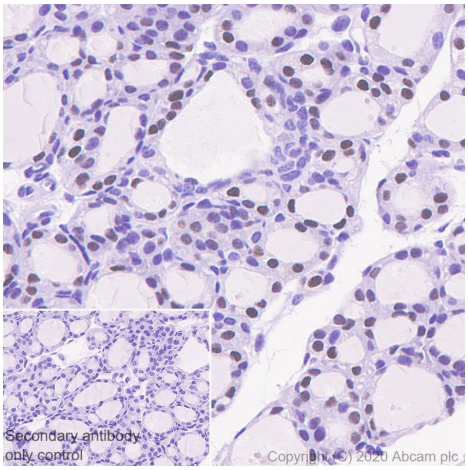


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody [EPR23508-20] (ab239363)

Immunohistochemical analysis of paraffin-embedded mouse thyroid tissue labeling PAX8 with ab239363 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining in mouse thyroid (PMID: 21317881). The section was incubated with ab239363 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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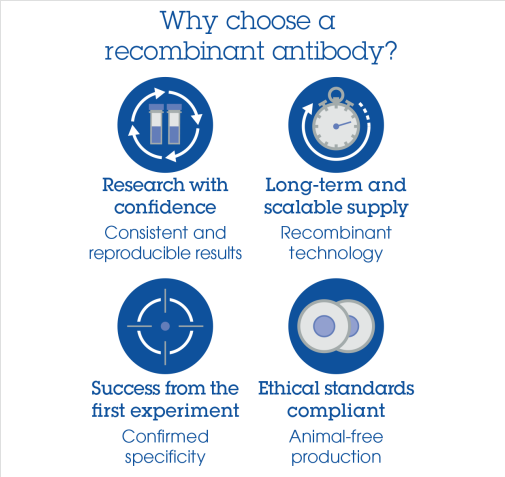


Anti-PAX8 antibody [EPR23508-20] (ab239363)

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