Product datasheet

Anti-PAX8 antibody [EPR13511] - C-terminal ab189249

Overview

Product name: Anti-PAX8 antibody [EPR13511] - C-terminal

Description: Rabbit monoclonal [EPR13511] to PAX8 - C-terminal

Host species: Rabbit

Tested applications: Suitable for: IHC-P, ICC/IF, Flow Cyt

Species reactivity: Reacts with: Human

Predicted to work with: Mouse, Rat, Dog, Orangutan

Immunogen: Recombinant full length protein aa 300 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q06710

Positive control: Human thyroid carcinoma tissue. HeLa cells.

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid


Storage buffer: Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified

Clonality: Monoclonal

Clone number: EPR13511
Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab189249 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/200 - 1/500. 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>ICC/IF</td>
<td>★★★★☆</td>
<td>1/250 - 1/500.</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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Target

Function

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

Tissue specificity

Expressed in the excretory system, thyroid gland and Wilms tumors.

Involvement in disease

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.

Sequence similarities

Contains 1 paired domain.

Developmental stage

In developing excretory system, during thyroid differentiation and in adult thyroid.

Cellular localization

Nucleus.

Images
ab189249 staining PAX8 in the human cell line MCF-7 (human breast carcinoma) by flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilized with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/20. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 (human breast carcinoma) labelling PAX8 with purified ab189249 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (Ab150077). Nuclei counterstained with DAPI (blue).

Control: PBS only

Immunohistochemical analysis of formalin fixed paraffin embedded human thyroid carcinoma labelling PAX8 with ab189249 at a 1/500 dilution and HRP Polymer for Rabbit IgG. Counterstained with Hematoxylin.
Immunocytochemical analysis of HeLa cells fixed in 4% paraformaldehyde labeling PAX8 with ab189249 at 1/250 dilution and Goat anti rabbit IgG(Alexa Fluor® 555) at 1/200 dilution. Counterstained with DAPI (right).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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