# Product datasheet

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

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-PAX8 antibody [EPR13511] - C-terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit monoclonal [EPR13511] to PAX8 - C-terminal</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
| **Tested applications** | Suitable for: IHC-P  
Unsuitable for: Flow Cyt or ICC/IF |
| **Species reactivity** | Reacts with: Human  
Predicted to work with: Mouse, Rat, Dog, Orangutan |
| **Immunogen** | Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | IHC-P: Human thyroid carcinoma tissue. |
| **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.  
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. |

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
| **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
EPR13511

Isotype
IgG

Applications

The Abpromise guarantee
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 - 1/10000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
</tr>
</tbody>
</table>

Application notes
Is unsuitable for Flow Cyt or ICC/IF.

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 cases. 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.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody [EPR13511] - C-terminal (ab189249)

Nuclear staining on paraffin-embedded sections of human thyroid carcinoma tissue, performed on a Leica Biosystems BOND® RX instrument. Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. Samples were incubated with primary antibody at a 1:10000 dilution (0.1 μg/ml). A Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as the counterstain. A secondary antibody-only control was also performed.

Immunohistochemical analysis of formalin fixed paraffin embedded human thyroid carcinoma labeling PAX8 with ab189249 at a 1/500 dilution and HRP Polymer for Rabbit IgG. Counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Anti-PAX8 antibody [EPR13511] - C-terminal (ab189249)

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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