

Anti-PAX8 antibody ab97477

★★★★★ [2 Abreviews](#) [6 References](#) [8 Images](#)

Overview

Product name	Anti-PAX8 antibody
Description	Rabbit polyclonal to PAX8
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, ChIP, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 1 and 214 of PAX8 (Uniprot: Q06710).
Positive control	ChIP: HEK-293T cells; WB: HEK-293T whole cell lysate; IHC-P: DLD1 xenograft, mouse liver and rat thyroid gland tissue; IF: A549 whole cells. IP: HEK-293T whole cell lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.025% Proclin 300</p> <p>Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab97477 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)	1/500 - 1/2000. Predicted molecular weight: 48 kDa.
ICC/IF	★★★★★ (1)	1/100 - 1/1000.
ChIP		Use at an assay dependent concentration.
IHC-P		1/100 - 1/1000.
IP		1/500 - 1/1000.

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.

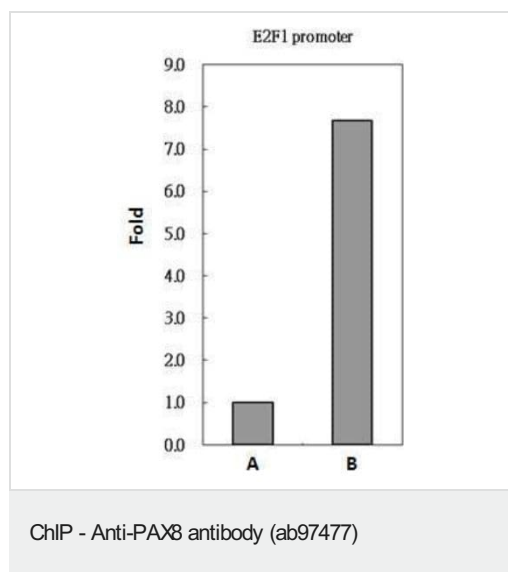
Developmental stage

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

Cellular localization

Nucleus.

Images



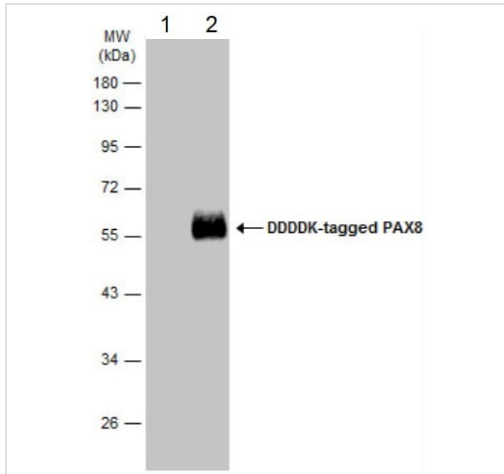
PAX8 antibody immunoprecipitates PAX8 protein-DNA in ChIP experiments.

ChIP Sample: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate;

A. 5 µg preimmune rabbit IgG;

B. 5 µg of ab97477.

The precipitated DNA was detected by PCR with primer set targeting to E2F1 promoter.



Western blot - Anti-PAX8 antibody (ab97477)

All lanes : Anti-PAX8 antibody (ab97477) at 1/10000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : DDDDK-tagged PAX8 transfected HEK-293T whole cell lysate

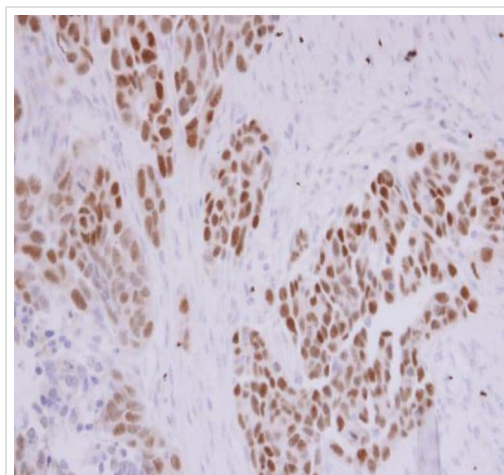
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 48 kDa

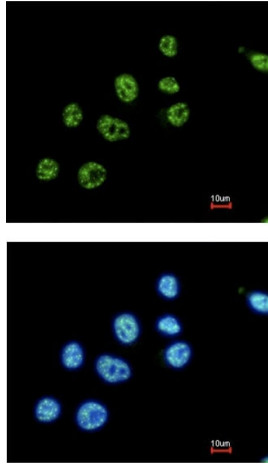
10% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody (ab97477)

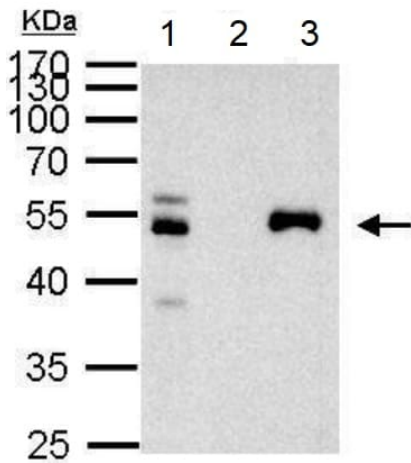
Immunohistochemical analysis of paraffin-embedded DLD1 xenograft tissue staining PAX8 protein at nucleolus with ab97477 at 1/500 dilution.

Antigen Retrieval: EDTA based buffer, pH 8.0, 15min.



Immunocytochemistry/ Immunofluorescence - Anti-PAX8 antibody (ab97477)

Immunofluorescence analysis of paraformaldehyde-fixed A549 (human lung carcinoma cell line) whole cells labeling PAX8 with ab97477 at 1/200 dilution. Bottom: Costained with DNA probe stain.



Immunoprecipitation - Anti-PAX8 antibody (ab97477)

ab97477 immunoprecipitates PAX8 protein in IP experiments.

IP Sample: 1000 µg HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

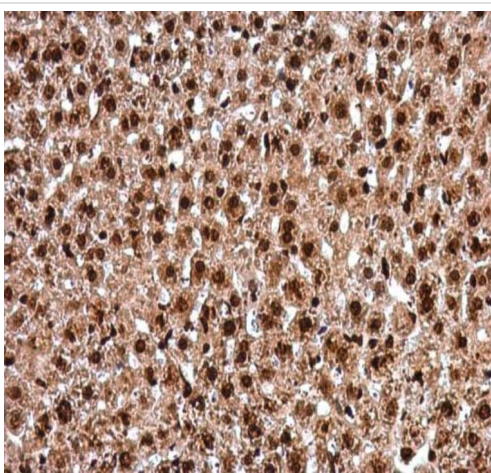
1- 40 µg HEK-293T whole cell lysate;

2- Control with 2 µg of preimmune rabbit IgG;

3- Immunoprecipitation of PAX8 protein by 2 µg of ab97477.

10% SDS-PAGE

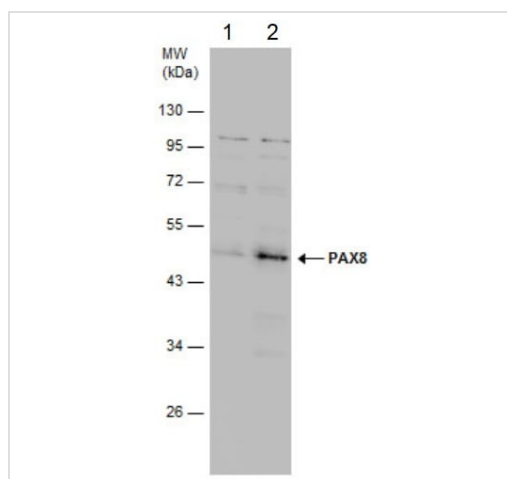
The immunoprecipitated PAX8 protein was detected by ab97477 at 1/1000 dilution, followed by anti-rabbit IgG antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody (ab97477)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue staining PAX8 protein at nucleus with ab97477 at 1/500 dilution.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Western blot - Anti-PAX8 antibody (ab97477)

All lanes : Anti-PAX8 antibody (ab97477) at 1/1000 dilution

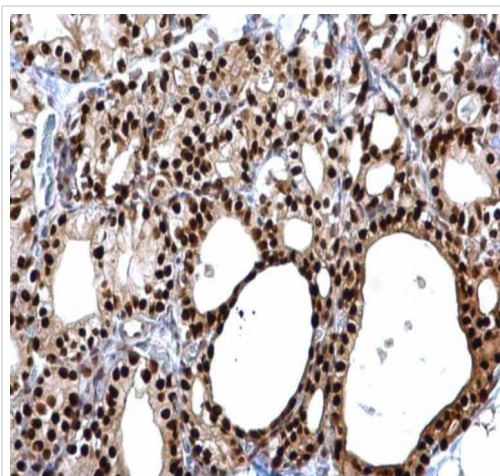
Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : HEK-293T cell nuclear extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 48 kDa

10% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody (ab97477)

Immunohistochemical analysis of paraffin-embedded rat thyroid gland tissue staining PAX8 protein at cytosol with ab97477 at 1/500 dilution.

Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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