

Anti-PAX8 antibody [PAX8R1] ab53490

★★★★☆ [6 Abreviews](#) [32 References](#) [7 Images](#)

Overview

Product name	Anti-PAX8 antibody [PAX8R1]
Description	Mouse monoclonal [PAX8R1] to PAX8
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, IHC-P, WB, IP, ICC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human PAX8 (C terminal). Database link: Q06710
Positive control	HeLa, NIH3T3 or F2408 nuclear cell lysate HeLa cells RIPA lysate of HeLa cells
General notes	<p>IHC-P is not batch-tested and therefore variability between batches might be seen for these applications.</p> <p>This product was changed from ascites to tissue culture supernatant on 9th August 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Purification notes	Purified from TCS

Clonality	Monoclonal
Clone number	PAX8R1
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab53490 in the following tested applications.

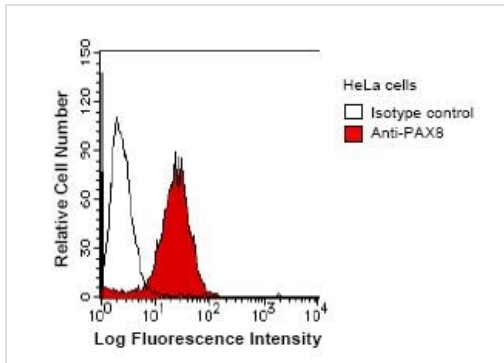
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. 0.5-2 µg/sample
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 48 kDa.
IP		Use at an assay dependent concentration. 1-5 µg/sample
ICC		Use a concentration of 2 - 100 µg/ml.

Target

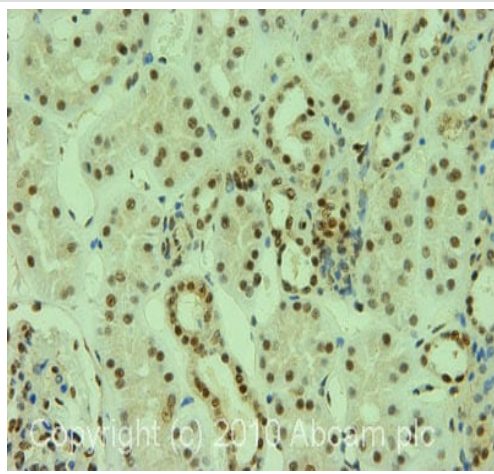
Function	Transcription factor for the thyroid-specific expression of the genes exclusively expressed in the thyroid cell type, maintaining the functional differentiation of such cells.
Tissue specificity	Expressed in the excretory system, thyroid gland and Wilms tumors.
Involvement in disease	Defects 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



Flow Cytometry - Anti-PAX8 antibody [PAX8R1]
(ab53490)

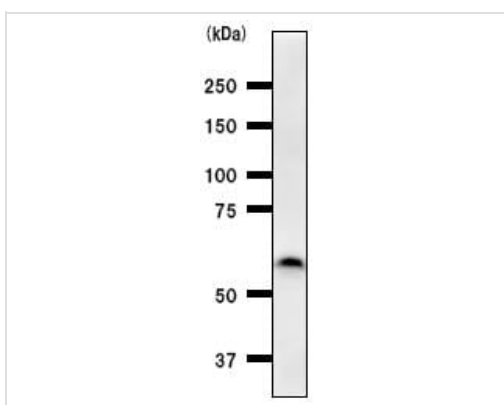
HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with ab53490 at 0.5 µg/sample (shaded) or isotype control (unshaded) followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (0.25µg)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAX8 antibody [PAX8R1]
(ab53490)

IHC image of ab53490 staining in human kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab53490, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-PAX8 antibody [PAX8R1]
(ab53490)

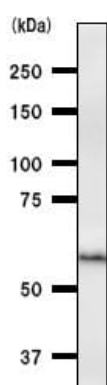
Anti-PAX8 antibody [PAX8R1] (ab53490) at 1/100 dilution + HeLa whole cell lysate at 50 µg

Secondary

Mouse IgG antibody at 1/2500 dilution

Predicted band size: 48 kDa

Observed band size: 60 kDa



Western blot - Anti-PAX8 antibody [PAX8R1]
(ab53490)

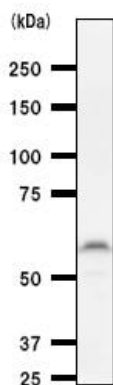
Anti-PAX8 antibody [PAX8R1] (ab53490) at 1/100 dilution +
NIH3T3 whole cell lysate at 25 µg

Secondary

Mouse IgG antibody at 1/2500 dilution

Predicted band size: 48 kDa

Observed band size: 60 kDa



Western blot - Anti-PAX8 antibody [PAX8R1]
(ab53490)

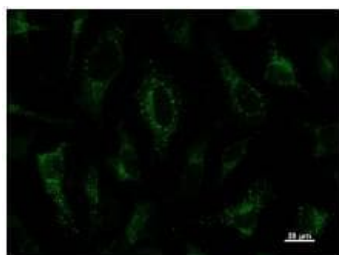
Anti-PAX8 antibody [PAX8R1] (ab53490) at 1/100 dilution + F2408
whole cell lysate at 25 µg

Secondary

Mouse IgG antibody at 1/2500 dilution

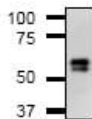
Predicted band size: 48 kDa

Observed band size: 60 kDa



Immunocytochemistry - Anti-PAX8 antibody
[PAX8R1] (ab53490)

ab53490, at a 1/10 dilution, staining PAX8 in HeLa cells, using
Immunocytochemistry, plus AlexaFluor®488 Goat Anti-mouse IgG
secondary antibody.



Immunoprecipitation - Anti-PAX8 antibody [PAX8R1]
(ab53490)

Immunoprecipitation: ab53490: 5µg, RIPA lysate of HeLa cells:
500µg. WB: ab53490 at a 1:100 dilution, Secondary antibody - anti-
mouse IgG at a 1:1000 dilution

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