



[Go to Product page](#)

Datasheet for ABIN4949848  
**anti-PAX8 antibody (AA 60-261)**

4 Images

Overview

Quantity:	100 µg
Target:	PAX8
Binding Specificity:	AA 60-261
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PAX8 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	A human recombinant fragment (aa 60-261) was used as the immunogen for the PAX8 antibody.
Clone:	PAX8-1492
Isotype:	IgG2a
Purification:	Protein G affinity chromatography

Target Details

Target:	PAX8
Alternative Name:	PAX8 ( <a href="#">PAX8 Products</a> )

## Target Details

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**Background:** PAX8 is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically encode proteins which contain a paired box domain, an octapeptide, and a paired-type homeodomain. The PAX gene family has an important role in the formation of tissues and organs during embryonic development and maintaining the normal function of some cells after birth. The PAX genes give instructions for making proteins that attach themselves to certain areas of DNA. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. PAX8 releases the hormones important for regulating growth, brain development, and metabolism. Also functions in very early stages of kidney organogenesis, the müllerian system, and the thymus. Additionally, PAX8 is expressed in the renal excretory system, epithelial cells of the endocervix, endometrium, ovary, Fallopian tube, seminal vesicle, epididymis, pancreatic islet cells and lymphoid cells. PAX8 and other transcription factors play a role in binding to DNA and regulating the genes that drive thyroid hormone synthesis (Tg, TPO, Slc5a5 and Tshr). PAX8 (and PAX2) is one of the important regulators of urogenital system morphogenesis. They play a role in the specification of the first renal cells of the embryo and remain essential players throughout development. [Wiki]

**Pathways:** [Thyroid Hormone Synthesis](#), [Regulation of Hormone Metabolic Process](#), [Stem Cell Maintenance](#), [Tube Formation](#)

## Application Details

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**Application Notes:** The stated application concentrations are suggested starting points. Titration of the PAX8 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. WB: 0.5-1 µg/mL,IF: 1-2 µg/mL,FACS: 0.5-1 µg/million cells in 0.1ml,IHC (FFPE): 1-2 µg/mL for 30 min at RT

**Restrictions:** For Research Use only

## Handling

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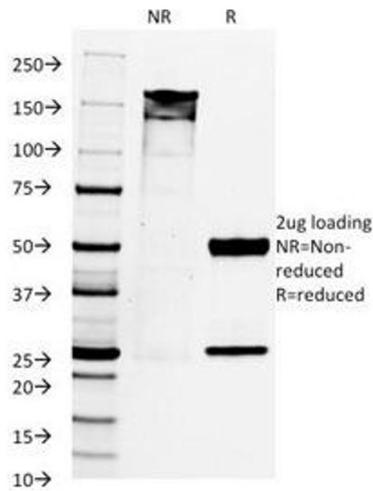
**Concentration:** 1 mg/mL

**Buffer:** 1 mg/mL in 1X PBS, BSA free, sodium azide free

**Preservative:** Azide free

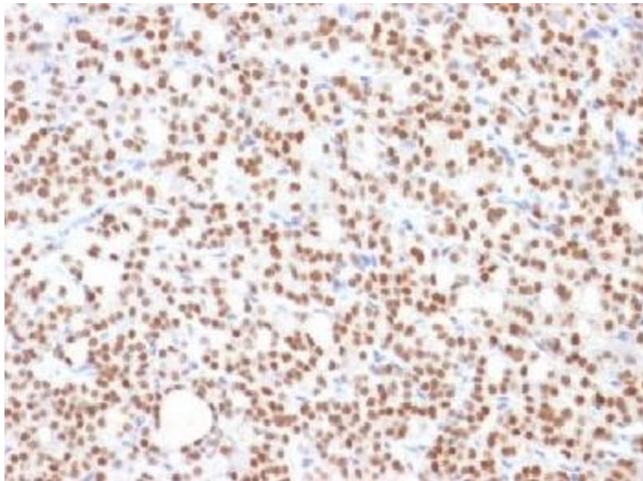
**Storage:** 4 °C,-20 °C

**Storage Comment:** Store the PAX8 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).



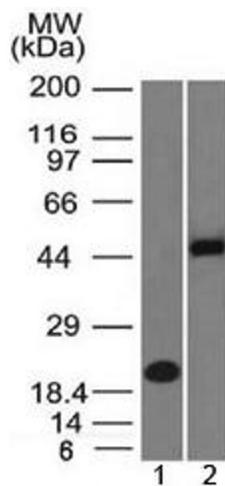
### SDS-PAGE

**Image 1.** SDS-PAGE Analysis of Purified, BSA-Free PAX8 Antibody (clone PAX8/1492). Confirmation of Integrity and Purity of the Antibody.



### Immunohistochemistry

**Image 2.** IHC testing of FFPE human thyroid carcinoma with PAX8 antibody (clone PAX8/1492). Required HIER: boil tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 minutes.



### Western Blotting

**Image 3.** Western blot testing of 1) human partial recombinant protein and 2) human Raji cell lysate with PAX8 antibody (clone PAX8/1492). Predicted molecular weight of isoforms 1-5: 31, 35, 42, 43 and 48 kDa, respectively. PAX8 can also be observed at ~62 kDa.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4949848.