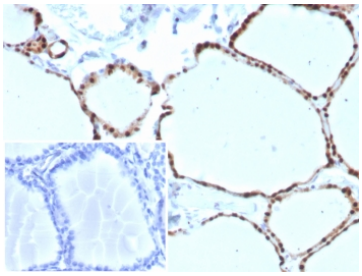
PAX8 Antibody / Negative Lineage Marker Contrast Antibody [clone PAX8/8973R] (V4911)

Catalog No.	Formulation	Size
V4911-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4911-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4911SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

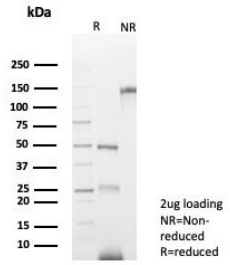
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PAX8/8973R
Purity	Protein A/G affinity
UniProt	Q06710
Localization	Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This PAX8 antibody is available for research use only.



PAX8 Antibody / Negative Lineage Marker Contrast Antibody immunohistochemistry in human thyroid tissue showing strong nuclear HRP-DAB brown staining in follicular epithelial cells. Paired box protein Pax-8 (PAX8) expression is localized to nuclei lining thyroid follicles, with clear staining of epithelial cells surrounding colloid-filled lumina and minimal signal in stromal compartments. The robust nuclear positivity in this lineage-positive tissue provides a reference pattern that contrasts with the absence of staining observed in non-PAX8-expressing tumors, supporting the use of PAX8 as a negative lineage marker in exclusion-based analysis. Negative cells retain hematoxylin-only nuclear staining for clear interpretive contrast. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free PAX8 Antibody / Negative Lineage Marker Contrast Antibody (clone PAX8/8973R) as confirmation of integrity and purity.

Description

Paired box protein Pax-8 (PAX8) is a nuclear transcription factor encoded by the PAX8 gene that exhibits a highly restricted expression pattern limited primarily to thyroid, renal, and Mullerian-derived epithelial tissues. This restricted distribution not only enables positive identification of these lineages but also provides a powerful basis for excluding unrelated tumor types. PAX8 Antibody is uniquely positioned as a negative lineage contrast marker, where absence of expression carries significant diagnostic value.

PAX8 antibody, also referred to as Paired box protein Pax-8 antibody or Pax-8 transcription factor antibody, is particularly effective in exclusion-based analysis because most epithelial tissues outside its lineage scope do not express PAX8. This PAX8 Antibody is uniquely positioned for identifying tumors that lack nuclear PAX8 staining, helping to rule out thyroid, renal, and Mullerian origins in cases of uncertain lineage.

Functionally, PAX8 regulates transcriptional programs specific to a limited group of epithelial tissues. As a result, its absence reflects lack of lineage-specific transcriptional activity, providing a clear negative signal that can be interpreted alongside positive markers. This dual interpretive role makes PAX8 especially valuable in diagnostic panels where both presence and absence of staining contribute to classification.

In oncology, many common tumor types, including gastrointestinal carcinomas, prostate cancer, and numerous lung tumors, typically do not express PAX8. When evaluated in panel-based approaches, the absence of nuclear staining in these tumors provides strong evidence against renal, thyroid, or Mullerian origin. This exclusion capability is particularly important in poorly differentiated tumors where morphology alone is inconclusive.

At the tissue level, negative PAX8 staining is characterized by complete absence of nuclear HRP-DAB signal in tumor cells, with only hematoxylin counterstain visible. This creates a clear contrast with PAX8-positive tissues and supports confident interpretation of negative results without ambiguity.

PAX8 Antibody therefore serves as a critical tool for negative lineage contrast, emphasizing the importance of non-expression as a diagnostic feature. Its restricted expression profile and clear absence of nuclear staining in non-lineage tissues make it highly effective for excluding specific tumor origins and refining classification in complex diagnostic scenarios.

Application Notes

Optimal dilution of the PAX8 Antibody / Negative Lineage Marker Contrast Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 150-300) from the human protein was used as the immunogen for the PAX8 Antibody / Negative Lineage Marker Contrast Antibody.

Storage

Aliquot the PAX8 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

PAX8 negative marker antibody, Paired box protein Pax-8 exclusion marker antibody, PAX8 non-expression marker antibody, Pax-8 lineage exclusion antibody, PAX8 negative tumor marker antibody

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