

PAX8 Rabbit mAb

Catalog No: #49174



Package Size: #49174-1 50ul #49174-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

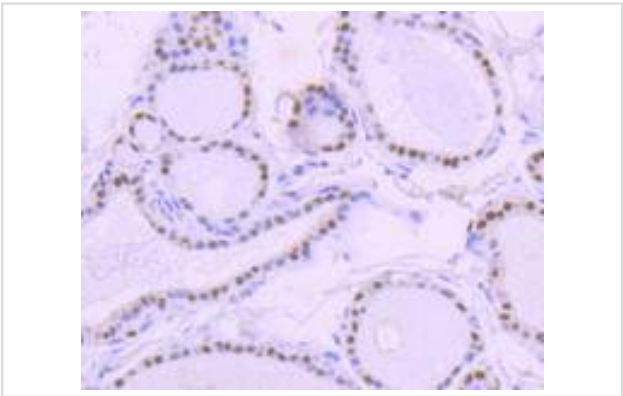
Description

|                       |   |
|-----------------------|---|
| Product Name          | PAX8 Rabbit mAb   |
| Host Species          | Recombinant Rabbit  |
| Clonality             | Monoclonal antibody   |
| Clone No.             | SD0832  |
| Purification          | ProA affinity purified  |
| Applications          | ICC/IF, IHC   |
| Species Reactivity    | Hu, Ms, Rt  |
| Immunogen Description | recombinant protein   |
| Other Names           | OTTHUMP00000158659 antibody OTTHUMP00000158660 antibody OTTHUMP00000203723 antibody OTTHUMP00000203724 antibody Paired box 8 antibody Paired box gene 8 antibody paired box homeotic gene 8 antibody Paired box protein Pax 8 antibody Paired box protein Pax-8 antibody Paired domain gene 8 antibody PAX 8 antibody PAX8 antibody PAX8_HUMAN antibody |
| Accession No.         | Swiss-Prot#:Q06710  |
| Formulation           | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.  |
| Storage               | Store at -20°C  |

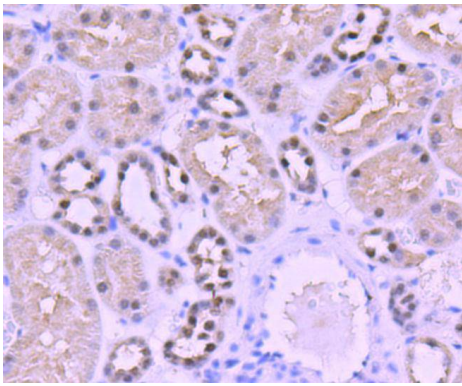
Application Details

IHC: 1:50-1:200ICC: 1:50-1:200

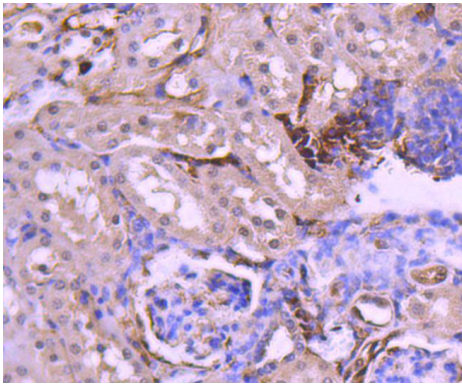
Images



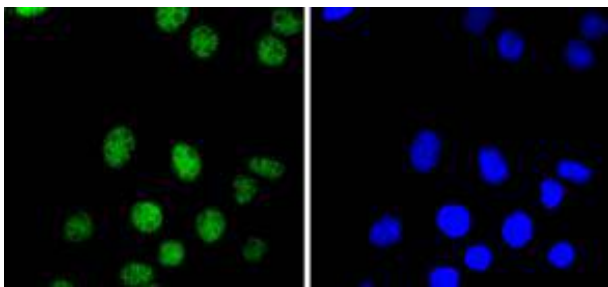
Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-PAX8 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PAX8 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PAX8 antibody. Counter stained with hematoxylin.



ICC staining PAX8 in SKOV-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

The Pax family encodes transcription factors that function during embryogenesis and regulate the temporal and position-dependent differentiation of cells. Pax-8 is expressed in the developing and adult thyroid, the developing secretory system and at lower levels, in the adult kidney. Pax-8 complexes with TTF-1 and TTF-2 to induce thyroid follicular cell differentiation and thyroid hormone biosynthesis by regulating the expression of sodium iodide symporter (NIS), thyroid peroxidase (TPO), thyroglobulin (TG) and the thyrotropin receptor (TSHR). Treatment of FRTL-5 cells with TGF $\beta$ 1 decreases Pax-8 mRNA levels and Pax-8 DNA binding activity, which suppresses the expression of TG and the formation of thyrocytes. Patients who have autosomal dominant mutations of the Pax-8 gene develop thyroid dysgenesis. The Pax-8 gene produces six isoforms, A to F, that are generated by alternative splicing and differ in their carboxy-terminal regions. The Pax-8 isoforms display different DNA binding capacities and are thought to be functionally distinct. The gene which encodes Pax-8 maps to human chromosome 2q12-q14.

## References

1. Sicking EM et al. Subtotal ablation of parietal epithelial cells induces crescent formation. *J Am Soc Nephrol* 23:629-40 (2012).
2. Borgogni E et al. Elocalcitol inhibits inflammatory responses in human thyroid cells and T cells. *Endocrinology* 149:3626-34 (2008).

## Published Papers

et al., Curcumin induces apoptosis and inhibits the growth of adrenocortical carcinoma: Identification of potential candidate genes and pathways by

transcriptome analysis. In Oncol Lett on 2021 Jun by Xuemei Huang, Chunfeng Liang,et al..PMID:33907586, , (2021)

[PMID:33907586](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.