

Anti-PAX8 Antibody [SD0832]

ET1612-61



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IF-Tissue, IHC-P
Molecular Wt:	48KD
Clone number:	SD0832

Description: 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 β 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.

Immunogen: Recombinant protein within Human PAX8 aa 260-450 / 450.

Positive control: SKOV-3 cell lysates, SKOV-3, human thyroid tissue, human kidney tissue, mouse kidney tissue.

Subcellular location: Nucleus.

Database links: SwissProt Q06710 Human | Q00288 Mouse | P51974 Rat

Recommended Dilutions:

WB	1:500-1:2000
IF-Cell	1:50-1:200
IF-Tissue	1:50-1:200
IHC-P	1:50-1:200

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

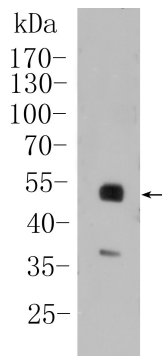


Fig1: Western blot analysis of PAX8 on SKOV-3 cell lysate. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET1612-61, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.

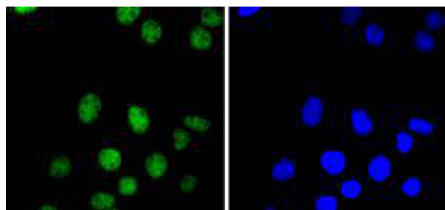


Fig2: ICC staining PAX8 in SKOV-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

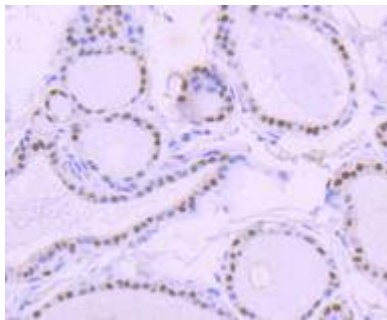


Fig3: Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-PAX8 antibody. Counter stained with hematoxylin.

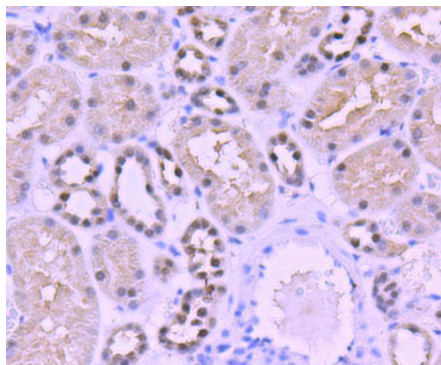


Fig4: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PAX8 antibody. Counter stained with hematoxylin.

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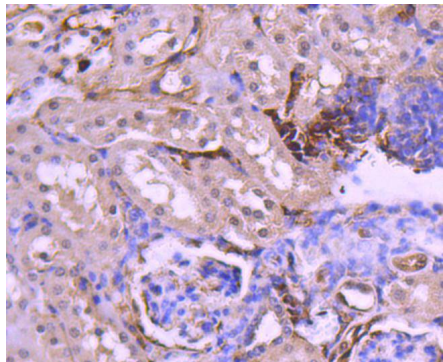


Fig5: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PAX8 antibody. Counter stained with hematoxylin.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background 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).

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