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DATA SHEET

Mouse Anti-PAX8 [MD63]: MC0384, MC0384RTU7

Intended Use: For Research Use Only

Description: PAX8 is expressed in the thyroid (and associated carcinomas), non-ciliated mucosal cells of the fallopian tubes and simple ovarian inclusion cysts, but not normal ovarian surface epithelial cells. PAX8 is expressed in a high percentage of ovarian serous, endometrioid, and clear cell carcinomas, but only rarely in primary ovarian mucinous adenocarcinomas. Studies have also found PAX8 expression in renal tubules as well as renal carcinoma, nephroblastoma and seminoma. Over 98% of clear cell RCCs, 90% of papillary RCCs, and 95% of oncocytomas were positive for PAX8, frequencies which are similar or better than for PAX2. Similarly, the absence of expression of PAX8 in breast and other non-GYN carcinomas other than those primary to the thyroid indicates that PAX-8 is an important new marker of ovarian cancer and a useful marker for the differentiation in lung and neck tumors, or tumors at distant sites where primary lung carcinoma or thyroid carcinoma are possibilities. PAX8, combined with organ system-specific markers such as uroplakin, mammaglobin, and TTF-1 can be a very useful panel to determine the primary site of invasive micropapillary carcinomas of ovary from bladder, lung, and breast.

Specifications:

Clone:	MD63
Source:	Mouse
Isotype:	IgG2b
Reactivity:	Human. Others not known.
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, WB

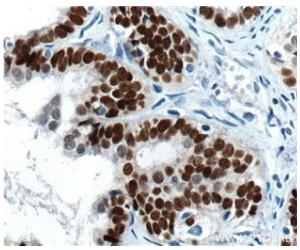
Package:

Description	Catalog No.	Size
PAX8 [MD63] Concentrated	MC0384	1 ml
PAX8 [MD63] Prediluted	MC0384RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	ovarian serous ca, RCC
Concentrated Dilution:	25-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human ovary tumor stained with anti-PAX8 using DAB.

References:

1. Xp11.2 translocation renal cell carcinoma with NONO-TFE3 gene fusion: morphology, prognosis, and potential pitfall in detecting TFE3 gene rearrangement. Xia QY, et al. Mod Pathol. Mar;30(3):416-426, 2017.
2. Ma R, et al. Human embryonic stem cells form functional thyroid follicles. Ma R, et al. Thyroid 25:455-61, 2015.
3. The value of PAX8 and WT1 molecules in ovarian cancer diagnosis. Liliac L, et al. Rom J Morphol Embryol. 54(1):17-27, 2013.
4. PAX8 is expressed in the majority of renal epithelial neoplasms: an immunohistochemical study of 223 cases using a mouse monoclonal antibody. Hu Y, et al. J Clin Pathol. Mar;65(3):254-6, 2012.

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Rev. A

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