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# 36-3387: Anti-PAX8 (Renal Cell Marker) Monoclonal Antibody(Clone: PAX8/1492)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | PAX8/1492 |
| **Application :** | FACS,IF,WB,IHC |
| **Reactivity :** | Human |
| **Gene :** | PAX8 |
| **Gene ID :** | 7849 |
| **Uniprot ID :** | Q06710 |
| **Alternative Name :** | Paired box 8; Paired box gene 8; paired box homeotic gene 8; Paired box protein Pax-8; Paired domain gene 8; PAX8 |
| **Isotype :** | Mouse IgG2b, kappa |
| **Immunogen Information :** | Recombinant fragment (around aa 60-261) of human PAX8 protein (exact sequence is proprietary) |

## Description

Recognizes a protein of 62kDa, identified as PAX8. It is a member of the paired box (PAX) family of transcription factors. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. Mutations in this gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas, and atypical thyroid adenomas. PAX-8 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. PAX-8 is expressed in a high percentage of ovarian serous, endometrioid, and clear cell carcinomas, but only rarely in primary ovarian mucinous adenocarcinomas. PAX-8 expression is reported in renal tubules as well as renal cell carcinoma, nephroblastoma, and seminoma. PAX-8 antibody may be used as an additional immunohistochemical marker for renal epithelial tumors.

## Product Info

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| **Amount :** | 20 µg / 100 µg |
| **Content :** | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage condition :** | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

## Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

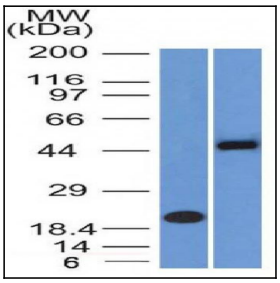


Fig. 1: Western Blot Analysis (A) Recombinant Protein (B) Raji cell lysate Using PAX8 Mouse Monoclonal Antibody (PAX8/1492).

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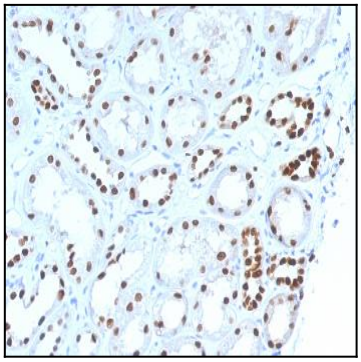

Fig. 2: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

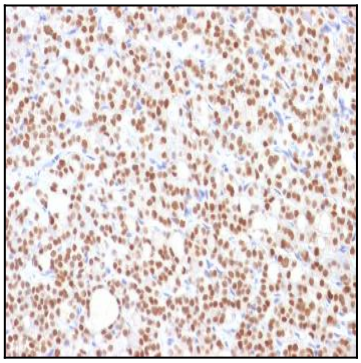

Fig. 3: Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

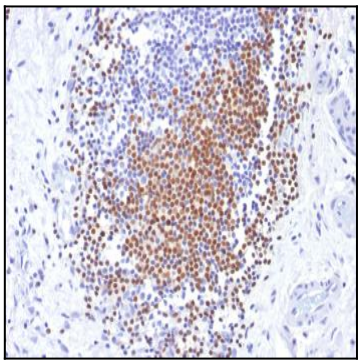

Fig. 4: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

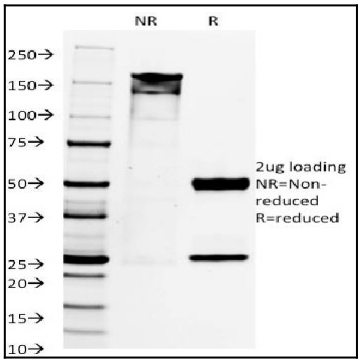


Fig. 5: SDS-PAGE Analysis Purified PAX8 Mouse Monoclonal Antibody (PAX8/1492). Confirmation of Integrity and Purity of Antibody.

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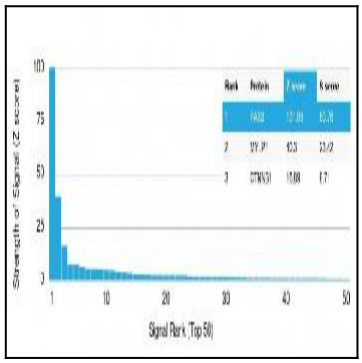

Fig. 6: Analysis of Protein Array containing >19,000 full-length human proteins using PAX8 Mouse Monoclonal Antibody (PAX8/1492) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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