

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

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | PAX8/1492   |
| <b>Application :</b>           | FACS,IF,WB,IHC  |
| <b>Reactivity :</b>            | Human   |
| <b>Gene :</b>                  | PAX8  |
| <b>Gene ID :</b>               | 7849  |
| <b>Uniprot ID :</b>            | Q06710  |
| <b>Alternative Name :</b>      | Paired box 8; Paired box gene 8; paired box homeotic gene 8; Paired box protein Pax-8; Paired domain gene 8; PAX8 |
| <b>Isotype :</b>               | Mouse IgG2b, kappa  |
| <b>Immunogen Information :</b> | 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

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg / 100 µg  |
| <b>Content :</b>           | 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. |
| <b>Storage condition :</b> | 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)

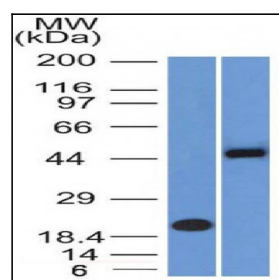


Fig. 1: Western Blot Analysis (A) Recombinant Protein (B) Raji cell lysate Using PAX8 Mouse Monoclonal Antibody (PAX8/1492).

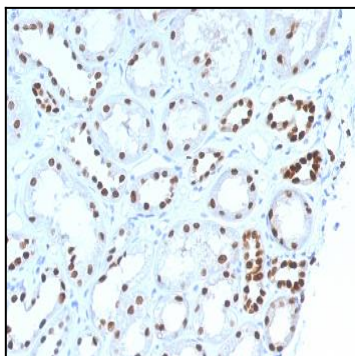


Fig. 2: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

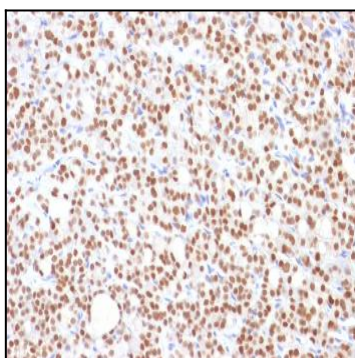


Fig. 3: Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

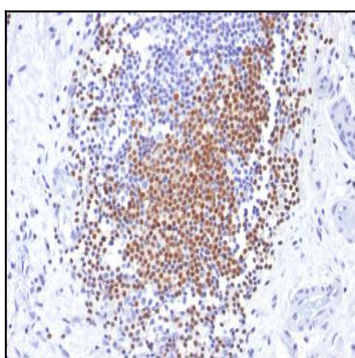


Fig. 4: Formalin-fixed, paraffin-embedded human Urothelial Carcinoma stained with PAX8 Mouse Monoclonal Antibody (PAX8/1492).

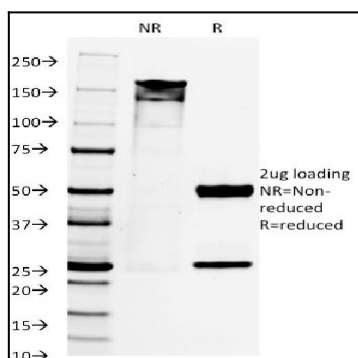


Fig. 5: SDS-PAGE Analysis Purified PAX8 Mouse Monoclonal Antibody (PAX8/1492). Confirmation of Integrity and Purity of Antibody.

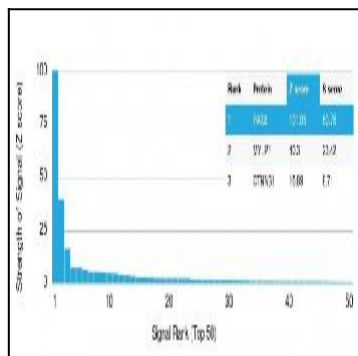


Fig. 6: Analysis of Protein Array containing >19,000 full-length human proteins using PAX8 Mouse Monoclonal Antibody (PAX8/1492) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.