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36-2896: Anti-PAX2 (Renal Cell & Ovarian Carcinoma Marker) Monoclonal Antibody(Clone: PAX2/1104)

Clonality :	Monoclonal
Clone Name :	PAX2/1104
Application :	ELISA,IHC
Reactivity :	Human
Gene :	PAX2
Gene ID :	5076
Uniprot ID :	Q02962
Alternative Name :	Paired box gene 2; paired box homeotic gene 2; paired box protein 2; Paired box protein Pax-2; Paired box protein Pax2
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 223-354) human PAX2 protein (exact sequence is proprietary)

Description

Recognizes a protein of 42kDa, which is identified as PAX2. It is a member of the paired box family of transcription factors, which is required for development and proliferation of the kidney, brain, and mullerian organs. PAX2 genes contain a highly conserved DNA sequence within the paired box region, which encodes a DNA-binding domain, enabling PAX proteins to bind the promoters of specific genes to transcriptionally regulate their expression. PAX2 is specifically expressed in the developing central nervous system, eye, ear, and urogenital tract, and is essential for the development of these organs. In normal adult tissues PAX2 was mainly detected in the urogenital system, including kidney, ureteric epithelium, fallopian tube epithelium, ovary and uterus. In tumors, PAX2 has been detected in renal cell carcinomas, Wilms' tumors, nephrogenic adenomas and papillary serous carcinoma of the ovary. PAX2 has been used as a marker for the identification of renal cell carcinoma and ovarian carcinoma by immunohistochemistry.

Product Info

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

ELISA (For coating, order Ab without BSA);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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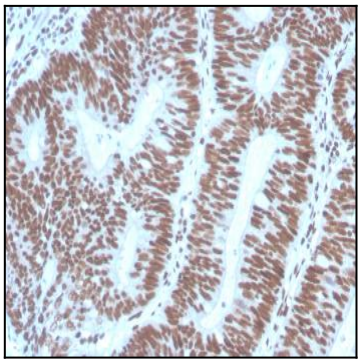


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with PAX2 Mouse Monoclonal Antibody (PAX2/1104).

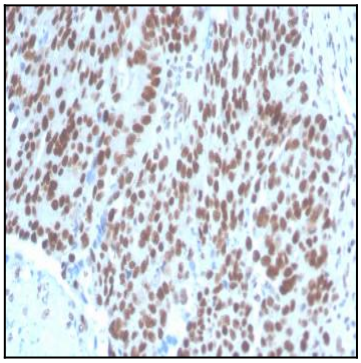


Fig. 2: Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with PAX2 Mouse Monoclonal Antibody (PAX2/1104).

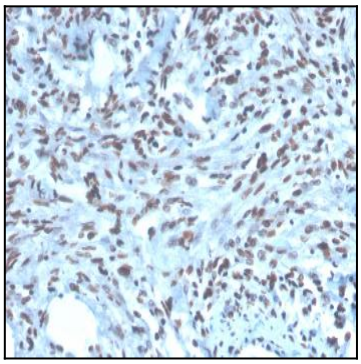


Fig. 3: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with PAX2 Mouse Monoclonal Antibody (PAX2/1104).

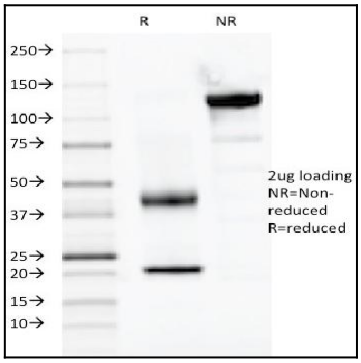


Fig. 4: SDS-PAGE Analysis Purified PAX2, Monoclonal Antibody (PAX2/1104). Confirmation of Integrity and Purity of Antibody.

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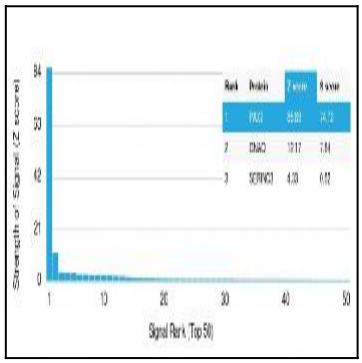


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using PAX2 Mouse Monoclonal Antibody (PAX2/1104). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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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