

Mouse PAX2 Monoclonal Antibody | anti-PAX2 antibody

PAX2 (Renal Cell & Ovarian Carcinoma Marker)

CATALOG # AAA214791	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

PAX2; Monoclonal Antibody; PAX2 (Renal Cell & Ovarian Carcinoma Marker); Paired box 2; Paired box gene 2; paired box homeotic gene 2; paired box protein 2; Paired box protein Pax-2; Paired box protein Pax2; Pax2; anti-PAX2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	PAX2/1104
Specificity	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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/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.
Sequence Length	419
Applicable Applications for anti-PAX2 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment (around aa 223-354) human PAX2 protein (exact sequence is proprietary)
Positive Control	NAMALWA cells. Fetal kidney or Renal Cell Carcinoma (RCC) or Ovarian Carcinoma
Cellular Localization	Nuclear
Chromosome Location	10q24
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

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.



SDS_PAGE

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



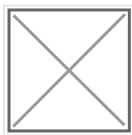
IHC (Immunohistochemisry)

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



IHC (Immunohiostchemistry)

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



IHC (Immunohistochemistry)

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

ADDITIONAL INFORMATION

References	Tamimi, Y. Dietrich, K., Stone, K. and Grundy, P. 2006. Paired box genes, PAX2 and PAX8, are not frequently mutated in Wilms tumor. Mutat. Res.601: 46-50.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1003701522
NCBI GeneID	5076
NCBI Accession #	NP_000269.3
NCBI GenBank Nucleotide #	NM_000278.4
UniProt Accession #	Q02962; Q15105; Q15110; Q15837; Q5SZP2; Q5SZP3
Molecular Weight	42kDa
NCBI Official Full Name	paired box protein Pax-2 isoform b
NCBI Official Synonym Full Names	paired box 2
NCBI Official Symbol	PAX2
NCBI Official Synonym Symbols	FSGS7; PAPRS
NCBI Protein Information	paired box protein Pax-2
UniProt Protein Name	Paired box protein Pax-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pax2-antibody-clone-pax2-1104-immunohistochemistry-elisa/214791>