

Product Datasheet

PAX2 Antibody (orb606922)

Description

PAX2 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.

Species/Host

Mouse

Reactivity

Human

Conjugation

Unconjugated

Tested Applications

ELISA, IHC-P

Immunogen

A portion of amino acids 223-354 from the human protein was used as the immunogen for this PAX2 antibody.

Preservatives

0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide

Storage

Store the PAX2 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

Note

For research use only

Application notes

Optimal dilution of the PAX2 antibody should be determined by the researcher.

Formula

0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

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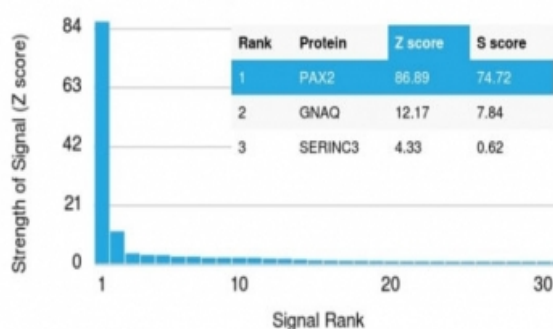
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Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal
Clone Number	PAX2/1104
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	Q02962
Hazard Information	This PAX2 antibody is available for research use only.
Dilution Range	ELISA (order BSA/sodium azide-free format for coating), Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.

Human Protein Microarray Specificity Validation



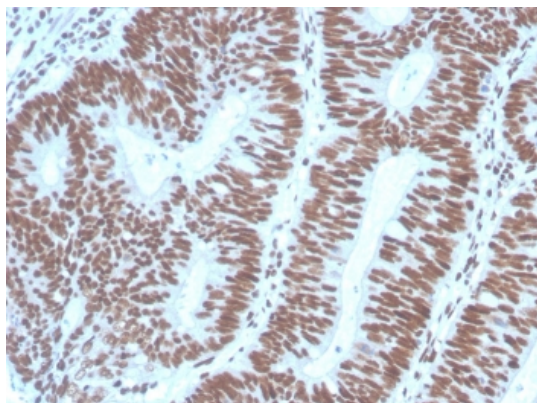
Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using PAX2 antibody (clone PAX2/1104). These results demonstrate the foremost specificity of the PAX2/1104 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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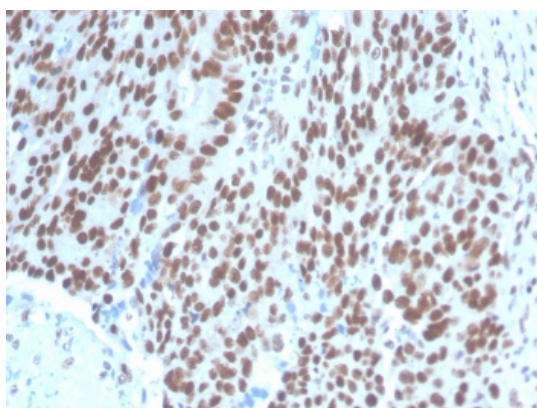
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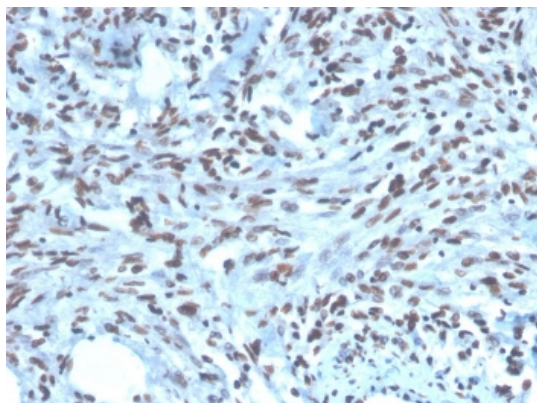
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IHC staining of FFPE human colon carcinoma with PAX2 antibody (clone PAX2/1104). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human ovarian carcinoma with PAX2 antibody (clone PAX2/1104). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



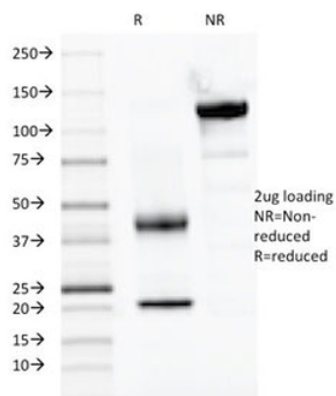
IHC staining of FFPE human renal cell carcinoma with PAX2 antibody (clone PAX2/1104). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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SDS-PAGE analysis of purified, BSA-free PAX2 antibody (clone PAX2/1104) as confirmation of integrity and purity.

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