

AM20924PU-N

Monoclonal Antibody to PAX2 - Purified

Alternate names:

Paired box protein Pax-2, Pax-2

Quantity:

50 µg

Concentration:

0.5 mg/ml

Background:

Pax genes contain paired domains with strong homology to genes in *Drosophila* which are involved in programming early development. The Pax-2 gene is expressed in primitive cells of the kidney, ureter, eye, ear, and central nervous system. More specifically, in human embryo sections, PAX2 is expressed in the optic vesicle and later in the retina, in the otic vesicle and later in the semicircular canals of the inner ear, and in mesonephros, metanephros, adrenals, spinal cord and hindbrain. PAX2 mutations can be responsible for renal hypoplasia, either isolated or associated with various ophthalmologic manifestations ranging from retinal coloboma to microphthalmia. Lesions in the PAX6 gene account for most cases of aniridia, a congenital malformation of the eye, chiefly characterized by iris hypoplasia, which can cause blindness. PAX6 is involved in other anterior segment malformations besides aniridia, such as Peters' anomaly, a major error in the embryonic development of the eye with corneal clouding with variable iridolenticulocorneal adhesions.

Uniprot ID:
[Q02962](#)
NCBI:
[NP_000269](#)
GeneID:
[5076](#)
Host / Isotype:

Mouse / IgG2a

Recommended Isotype Controls:

AM03096PU-N

Clone:

3C7

Immunogen:

Partial Recombinant protein, PAX2 (NP_000269, 194 a.a. ~ 304 a.a) with GST tag.

Genename: PAX2

Remarks: MW of the GST tag alone is 26 KDa.

Format:
State: Liquid purified Ig fraction

Purification: Protein A Chromatography

Buffer System: PBS, pH 7.2

Applications:

ELISA.

Immunohistochemistry on Paraffin Sections: 5 µg/ml.

Western Blot.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognizes Paired Box Protein Pax-2 (PAX2).

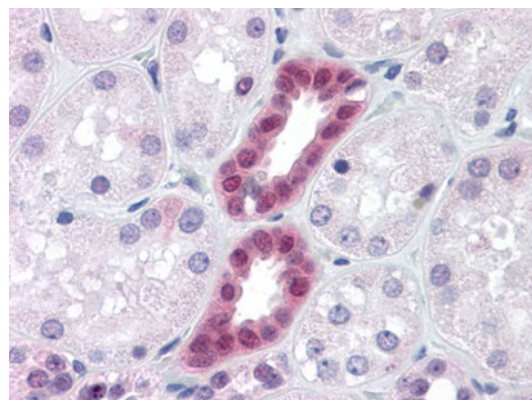
Species Reactivity:
Tested: Human.

Storage:

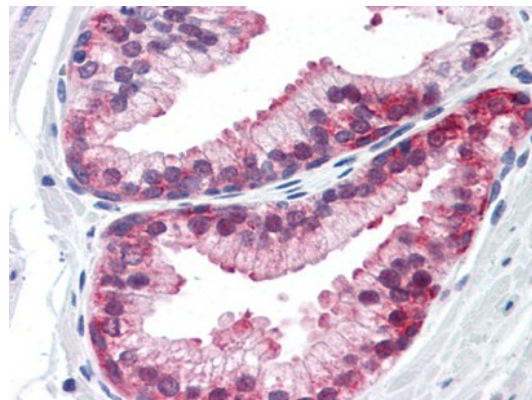
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western Blot analysis of PAX2 expression in transfected 293T cell line by PAX2 monoclonal antibody clone 3C7.

