Product Name: Pax-2 Rabbit Polyclonal Antibody
Catalog #: APRab15785

Summary

Production Name	Pax-2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PAX2
Alternative Names	PAX2; Paired box protein Pax-2
Gene ID	5076.0
SwissProt ID	Q02962.The antiserum was produced against synthesized peptide derived from human Pax-2. AA range:144-193

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..
Molecular Weight	42,35kD

Background

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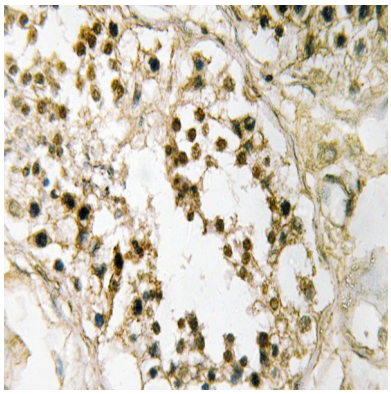
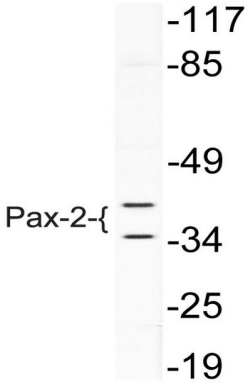
PAX2 encodes paired box gene 2, one of many human homologues of the Drosophila melanogaster gene prd. The central feature of this transcription factor gene family is the conserved DNA-binding paired box domain. PAX2 is believed to be a target of transcriptional supression by the tumor suppressor gene WT1. Mutations within PAX2 have been shown to result in optic nerve colobomas and renal hypoplasia. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014],developmental stage:Mainly in fetal kidney and juvenile nephrogenic rests.,disease:Defects in PAX2 are the cause of renal-coloboma syndrome (RCS) [MIM:120330]; also known as papillorenal syndrome or optic nerve coloboma with renal disease. RCS is an autosomal dominant disease characterized by the association of renal hypoplasia, vesicoureteral reflux and dysplasia of the retina and optic disk.,disease:Defects in PAX2 may be responsible for isolated renal hypoplasia as observed in oligomeganephronia (OMN). OMN is a rare congenital and usually sporadic anomaly characterized by bilateral renal hypoplasia, with a reduced number of enlarged nephrons and without urinary tract abnormalities.,function:Probable transcription factor that may have a role in kidney cell differentiation. Has a critical role in the development of the urogenital tract, the eyes, and the CNS.,similarity:Contains 1 paired domain.,tissue specificity:Expressed in primitive cells of the kidney, ureter, eye, ear and central nervous system.,

Research Area

Image Data



Immunohistochemistry analysis of Pax-2 antibody in paraffin-embedded human testis tissue.



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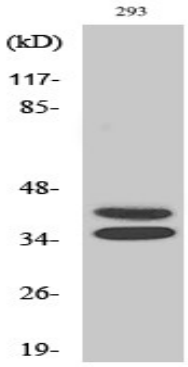
Western blot analysis of lysate from 293 cells, using Pax-2 antibody.



Western Blot analysis of various cells using Pax-2 Polyclonal Antibody

Note

For research use only.