SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-PAX2 antibody

SL1187R

Product Name:	PAX2
Chinese Name:	配对盒基因2抗体
Alias:	PAX2 Paired box gene 2; Paired box gene 2; paired box homeotic gene 2; paired box protein 2; Paired box protein Pax 2; Paired box protein Pax-2; Paired box protein Pax2; Pax 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PAX2:51-150/416
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 supressor 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, Jul 2008]

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.

Subunit:
Interacts with ELGN3; the interaction targets PAX2 for destruction.

Subcellular Location:
Nuclear.

Tissue Specificity:
Expressed in primitive cells of the kidney, ureter, eye, ear and central nervous system.

DISEASE:
Renal-coloboma syndrome (RCS) [MIM:120330]: An autosomal dominant disorder characterized by both ocular and renal anomalies, but may also include vesicoureteral reflux, high frequency hearing loss, central nervous system anomalies, and/or genital anomalies. Eye anomalies in this disorder consist of a wide and sometimes excavated dysplastic optic disk with the emergence of the retinal vessels from the periphery of the disk, designated optic nerve coloboma or 'morning glory' anomaly. Associated findings may include a small corneal diameter, retinal coloboma, sclera staphyloma, optic nerve cyst, microphthalmia, and pigmentary macular dysplasia. The kidneys are small and abnormally formed (renal hypodysplasia), and have fewer than the normal number of glomeruli, which are enlarged (oligomeganephronia). These ocular and renal anomalies result in decreased visual acuity and retinal detachment, as well as hypertension, proteinuria, and renal insufficiency that frequently progresses to end-stage renal disease. Note=The disease is caused by mutations affecting the gene represented in this entry. Note=Defects in PAX2 can be responsible for isolated renal hypodysplasia and oligomeganephronia (OMN). This 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.

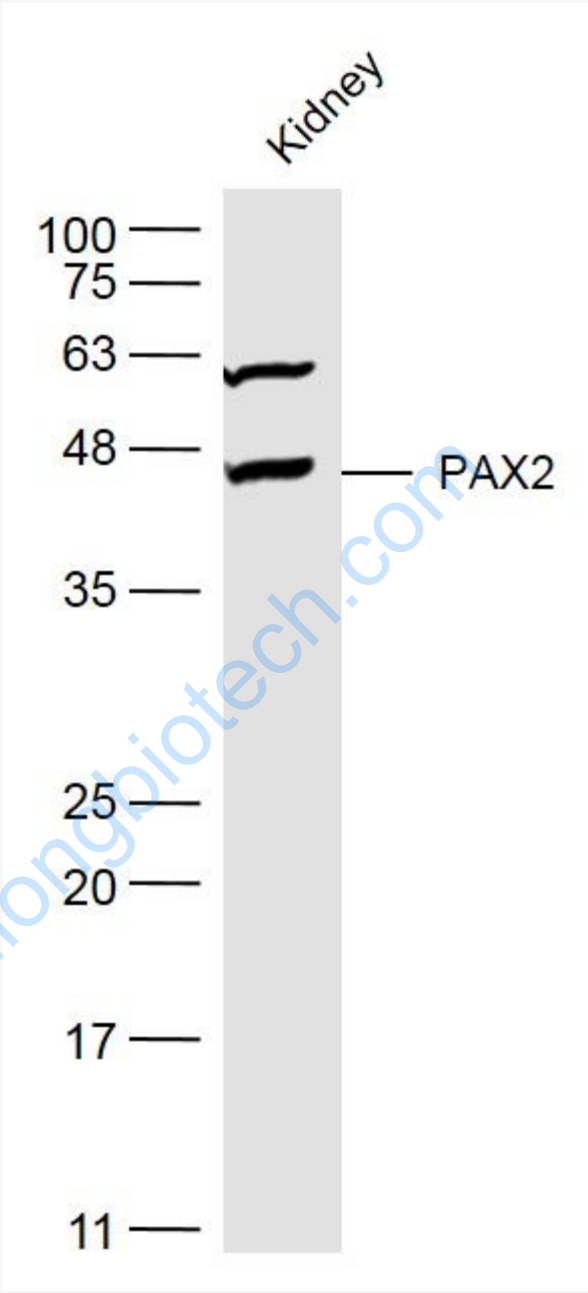
Similarity:
Contains 1 paired domain.

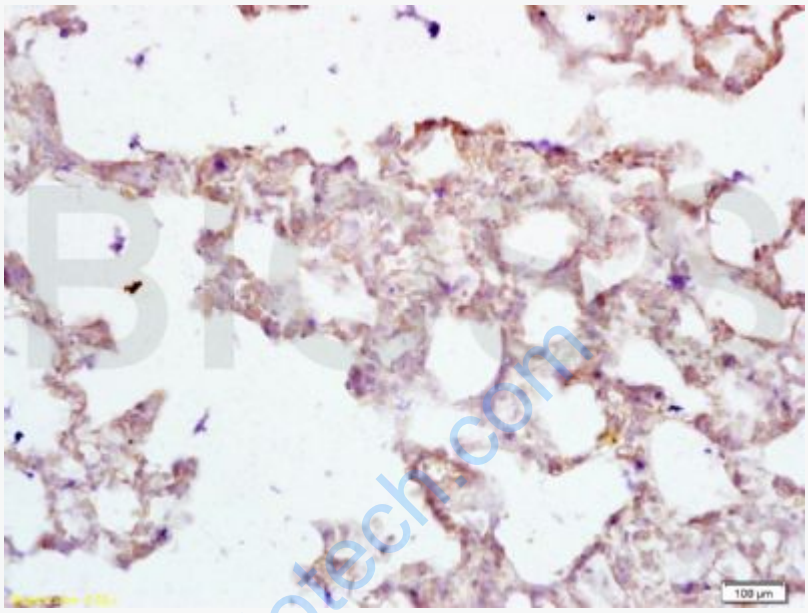
SWISS:
Q02962

Gene ID:
5076

Database links:

	Entrez Gene: 5076Human Entrez Gene: 18504Mouse Omim: 167409Human SwissProt: Q02962Human SwissProt: P32114Mouse Unigene: 155644Human Unigene: 192158Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 同源结构域蛋白（Homeodomain Proteins） PAX2 可结合DNA的位点，属转录抑制因子。PAX2基因在介导雌激素和三苯氧胺刺激的子宫内膜细胞的增殖和癌变过程中起着关键作用。

Picture:	 Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti-PAX2 (SL1187R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD

	Observed band size: 46 kD  Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-PAX2 Polyclonal Antibody, Unconjugated(SL1187R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining