PAX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Pax2, Polyclonal Antibody
Full Product Name	Pax2 Antibody FITC-Conjugated
Product Gene Name	anti-Pax2 antibody
Product Synonym Names	Paired box 2; Paired box gene 2; paired box protein 2; Paired box protein Pax 2; Pax 2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	FITC-Conjugated
Concentration	0.75-0.95 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: Pax2 (MBS542425) Positive Control: PAX2 (MBS543044)
Antibody/Peptide Pairs	Pax2 peptide (MBS544122) is used for blocking the activity of Pax2 antibody (MBS542425)
Molecular Weight	41,956 Da
OMIM	120330
3D Structure	ModBase 3D Structure for Q02962
Immunogen	Synthetic peptide taken within amino acid region 1-50, 255-305, and 310-360 on human PAX2 protein.
Immunoglobulin	IgG
Expression	Expressed in primitive cells of the kidney, ureter, eye, ear and central nervous system.
Determinant	Multi-epitope
Molecular Function	Developmental protein, core promoter proximal region sequence-specific DNA binding, DNA binding
Structure	Mainly in fetal kidney and juvenile nephrogenic rests.
Subcellular Location	Nucleus
Applications Tested/Suitable for anti-Pax2 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-Pax2 antibody	ELISA: 1:10,000 Immunoprecipitation: 1:200 Western Blot: 1:500
Related Product Information for anti-Pax2 antibody	FITC-Conjugated Paired box protein Pax-2 Antibody Multi-epitope 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.
Other Notes	Small volumes of anti-Pax2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Pax2 purchase	MBS542425 is an antibody targeting Pax2. Also known as Pax2 Antibody FITC-Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pax2. It may not necessarily be applicable to this product.

NCBI GI #	223590261
NCBI GeneID	5076
NCBI Accession #	Q02962.4
UniProt Primary Accession #	Q02962
UniProt Secondary Accession #	Q15105; Q15110; Q15837; Q5SZP2; Q5SZP3
UniProt Related Accession #	Q02962
NCBI Official Full Name	Paired box protein Pax-2
NCBI Official Synonym Full Names	paired box 2
NCBI Official Symbol	PAX2
NCBI Official Synonym Symbols	FSGS7; PAPRS
UniProt Protein Name	Paired box protein Pax-2
Protein Family	Paired box protein
UniProt Gene Name	PAX2
UniProt Entry Name	PAX2_HUMAN
NCBI Protein Information	paired box protein Pax-2
NCBI Summary for Pax2	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]
UniProt Comments for Pax2	PAX2: 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. Interacts with ELGN3; the interaction targets PAX2 for destruction. Expressed in primitive cells of the kidney, ureter, eye, ear and central nervous system. 4 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 10q24 Cellular Component: Golgi apparatus; lysosome; microtubule organizing center; nucleolus; nucleus; protein complex Molecular Function: DNA binding; protein binding; superoxide-generating NADPH oxidase activity; transcription factor binding Biological Process: aging; axonogenesis; brain morphogenesis; camera-type eye development; cell fate determination; glial cell differentiation; inner ear morphogenesis; mesodermal cell fate specification; mesonephros development; negative regulation of apoptosis; negative regulation of caspase activity; negative regulation of cytolysis; negative regulation of programmed cell death; negative regulation of transcription, DNA-dependent; neural tube closure; optic cup morphogenesis involved in camera-type eye development; optic nerve development; optic nerve morphogenesis; optic nerve structural organization; positive regulation of epithelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; pronephros development; protein kinase B signaling cascade; response to nutrient levels; stem cell differentiation; transcription from RNA polymerase II promoter; transcription, DNA-dependent; ureteric bud branching; urogenital system development; vestibulocochlear nerve formation; visual perception Disease: Focal Segmental Glomerulosclerosis 7; Papillorenal Syndrome; Renal Hypodysplasia/aplasia 1

Research Articles on Pax2	**1.** data suggested the differential regulation of hDAO expression by two promoters whose activities may be modulated by the binding of PAX2 and PAX5
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