PAX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAX2, Polyclonal Antibody
Full Product Name	PAX2 Rabbit pAb
Product Gene Name	anti-PAX2 antibody
Product Synonym Names	FSGS7; PAPRS
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 50nM Tris-Glycine (pH 7.4), 0.15M Nacl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Purity/Purification	Affinity purified
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Molecular Weight	393
OMIM	phenotype 167409
3D Structure	ModBase 3D Structure for Q02962
Immunogen	Recombinant protein of human Pax2
Product Categories/Family for anti-PAX2 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PAX2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PAX2 antibody	WB: 1:1000 IHC: 1:50
Related Product Information for anti-PAX2 antibody	Transcription factor that may have a role in kidney cell differentiation (PubMed: 24676634). 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	MBS8575673 is an antibody targeting PAX2. Also known as PAX2 Rabbit pAb. Reactive in Human. 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; paired box homeotic gene 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: protein complex; lysosome; microtubule organizing center; nucleus Molecular Function: protein binding; DNA binding; superoxide-generating NADPH oxidase activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; negative regulation of cytolysis; optic nerve structural organization; positive regulation of transcription, DNA-dependent; cell fate determination; negative regulation of caspase activity; negative regulation of transcription from RNA polymerase II promoter; pronephros development; glial cell differentiation; vestibulocochlear nerve formation; visual perception; pancreas development; negative regulation of programmed cell death; protein kinase B signaling cascade; brain morphogenesis; mesonephros development; aging; response to nutrient levels; inner ear morphogenesis; camera-type eye development; transcription, DNA-dependent; optic cup morphogenesis involved in camera-type eye development; stem cell differentiation; optic nerve morphogenesis; axonogenesis; optic nerve development; ureteric bud branching; neural tube closure; mesodermal cell fate specification; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; urogenital system development; positive regulation of epithelial cell proliferation; negative regulation of apoptosis Disease: Papillorenal Syndrome; Renal Hypodysplasia/aplasia 1; Focal Segmental Glomerulosclerosis 7
Research Articles on PAX2	**1.** study, for the first time, links PAX2-null with proliferating fetal and adult oviductal cells undergoing basal and ciliated differentiation and shows that this expression state is maintained in high-grade serous cancer precursors
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