10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-Pax2 Picoband Antibody

Catalog # ABO12420

Specification

Anti-Pax2 Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q02962
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Paired box protein Pax-2(PAX2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Pax2 Picoband Antibody - Additional Information

Gene ID 5076

Other Names
Paired box protein Pax-2, PAX2

Calculated MW
44706 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Rat, Human

Subcellular Localization
Nucleus.

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

Protein Name
Paired box protein Pax-2

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Pax2 (248-282aa RKHLRADTFTQQQLEALDRVFERPSYPDVFQASEH), identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Pax2 Picoband Antibody - Protein Information

Name PAX2

Function
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.

Cellular Location
Nucleus.

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

Anti-Pax2 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Pax2 Picoband Antibody - Images

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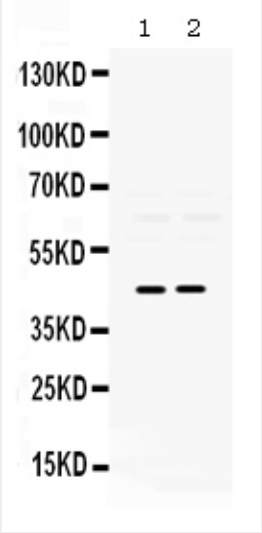
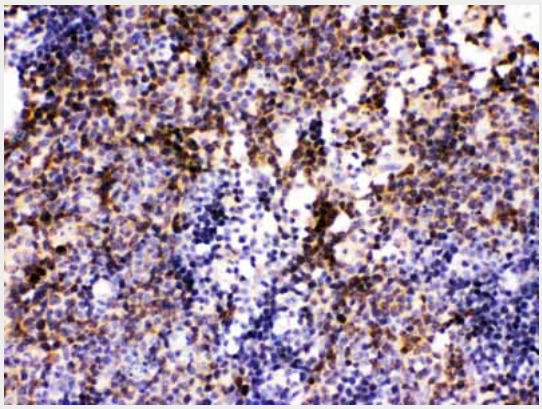
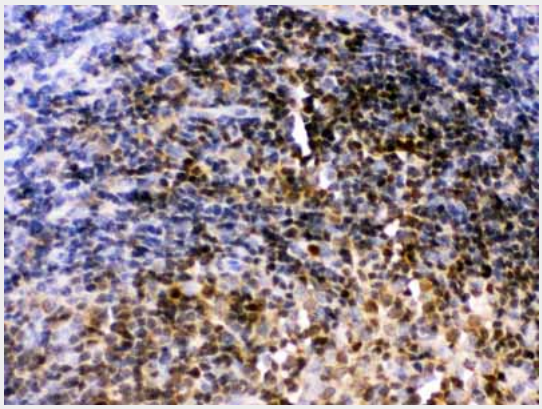


Anti- Pax2 Picoband antibody, ABO12420, Western blottingAll lanes: Anti Pax2 (ABO12420) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Lung Tissue Lysate at 50ugPredicted bind size: 45KDObserved bind size: 45KD



Anti- Pax2 Picoband antibody, ABO12420,IHC(P)IHC(P): Mouse Lymphaden Tissue



Anti- Pax2 Picoband antibody, ABO12420,IHC(P)IHC(P): Rat Lymphaden Tissue

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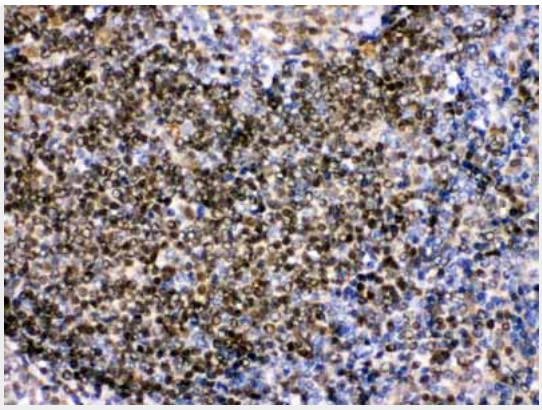

Anti- Pax2 Picoband antibody, ABO12420,IHC(P)IHC(P): Human Tonsil Tissue

Anti-Pax2 Picoband Antibody - Background

Paired box gene 2, also known as PAX2, is a protein which in humans is encoded by the PAX2 gene. This gene is mapped to 10q24. 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.