

Datasheet for ABIN7658380

anti-PAX2A antibody (AA 223-354) (CF®640R)



[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PAX2A
Binding Specificity:	AA 223-354
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PAX2A antibody is conjugated to CF®640R
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	PAX2 (Renal Cell & Ovarian Carcinoma Marker) (PAX2/1104), CF640R conjugate
Immunogen:	Recombinant fragment (around aa 223-354) human PAX2 protein
Clone:	PAX2-1104
Isotype:	IgG2b, kappa
Characteristics:	This antibody recognizes a protein of 42 kDa, which is identified as PAX2. It is a member of the paired box family of transcription factors, which is required for development and proliferation of the kidney, brain, and MA1/4llerian organs. PAX2 genes contain a highly conserved DNA sequence within the paired box region, which encodes a DNA-binding domain, enabling PAX proteins to bind the promoters of specific genes to transcriptionally regulate their expression. PAX2 is specifically expressed in the developing central nervous system, eye, ear, and

Product Details

urogenital tract, and is essential for the development of these organs. In normal adult tissues PAX2 was mainly detected in the urogenital system, including kidney, ureteric epithelium, fallopian tube epithelium, ovary and uterus. In tumors, PAX2 has been detected in renal cell carcinomas, Wilms' tumors, nephrogenic adenomas and papillary serous carcinoma of the ovary. PAX2 has been used as a marker for the identification of renal cell carcinoma and ovarian carcinoma by immunohistochemistry. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	PAX2A
Alternative Name:	PAX2
Background:	Synonyms: Paired box gene 2, paired box homeotic gene 2, paired box protein 2, Paired box protein Pax-2, Paired box protein Pax2 Gene Symbol: PAX2 Tissue Expression: Uterus Kidney Ovary
Molecular Weight:	42 kDa
Gene ID:	5076
UniProt:	Q02962
Pathways:	Carbohydrate Homeostasis , Stem Cell Maintenance , Tube Formation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Positive Control: NAMALWA cells. Fetal kidney or Renal Cell Carcinoma (RCC) or Ovarian Carcinoma.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months