

For Research Use Only

# PAX8 Polyclonal antibody

Catalog Number: 10336-1-AP

Featured Product

493 Publications



## Basic Information

**Catalog Number:**

10336-1-AP

**Size:**

150ul, Concentration: 500 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC001060

**GeneID (NCBI):**

7849

**UNIPROT ID:**

Q06710

**Full Name:**

paired box 8

**Calculated MW:**

48 kDa

**Observed MW:**

48 kDa, 58 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:5000

IF 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IF, IHC, ELISA

**Cited Applications:**

WB, IF, FC, IHC, CoIP, ELISA

**Species Specificity:**

human, mouse

**Cited Species:**

human, rat, mouse, rabbit, zebrafish, pig, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** SKOV-3 cells, HEK-293 cells, Raji cells, NIH/3T3 cells

**IP:** SKOV-3 cells, HeLa cells

**IHC:** human ovary tumor tissue, human thyroid cancer tissue, human renal cell carcinoma tissue, mouse kidney tissue

**IF:** SKOV-3 cells, mouse kidney tissue

## Background Information

PAX8 is a member of the paired box (PAX) family of transcription factors, typically containing a paired box domain and a paired-type homeodomain. It is expressed during organogenesis of the thyroid gland, kidney and Mullerian system. It is thought to regulate the expression of Wilms tumor suppressor (WT1) gene and mutations in PAX8 have been associated with Wilms tumor cells, thyroid and ovarian carcinomas. PAX8 is a useful marker in distinguishing ovarian carcinomas from mammary carcinomas (PMID: 18724243). PAX8 is expressed in a high percentage of ovarian serous, endometrioid, and clear cell carcinomas, but only rarely in primary ovarian mucinous adenocarcinomas.

This antibody can detect all 5 isoforms of PAX8 (31 kDa, 34 kDa, 41 kDa, 43 kDa and 48 kDa). A 58-60 kDa form has also been reported (PMID:15650356, 1049952). Proteintech's 10336-1-AP antibody has cross-reactivities with the other PAX family members.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yong Kyun Kim	28905451	Stem Cells	IF
Olga Kondrashova	30266954	Nat Commun	IHC
Bilhan	27765277	Curr Res Transl Med	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

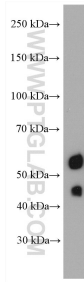
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

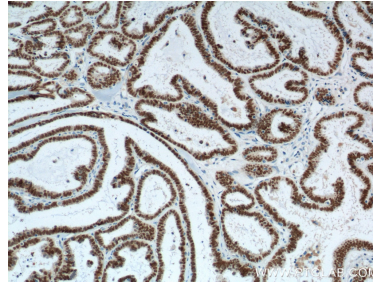
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

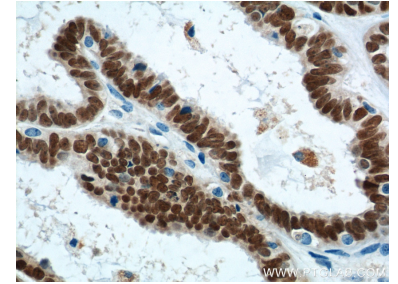
## Selected Validation Data



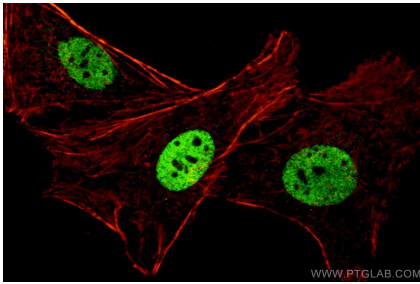
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 10336-1-AP (PAX8 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



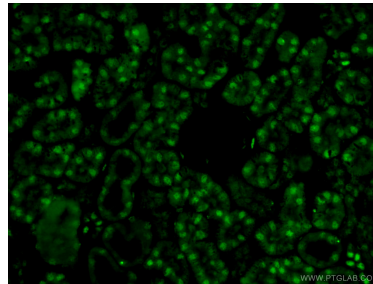
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10336-1-AP (PAX8 Antibody) at dilution of 1:1200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



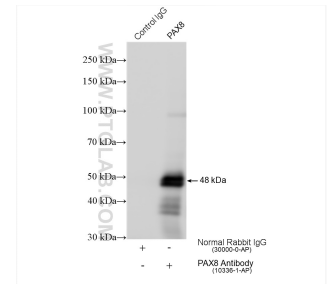
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10336-1-AP (PAX8 Antibody) at dilution of 1:1200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Confocal immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using 10336-1-AP (PAX8 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Phalloidin stains F-actin (Red).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using 10336-1-AP (PAX8 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-PAX8 (IP:10336-1-AP, 4ug; Detection:10336-1-AP 1:15000) with SKOV-3 cells lysate 3280 ug.