

For Research Use Only

# PAX8 Monoclonal antibody

Catalog Number: 60145-4-Ig **9 Publications**



## Basic Information

<b>Catalog Number:</b> 60145-4-Ig	<b>GenBank Accession Number:</b> BC001060	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2100 ug/ml	<b>GeneID (NCBI):</b> 7849	<b>CloneNo.:</b> 4H7B3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q06710	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:5000-1:20000 IF-P 1:200-1:800 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> paired box 8	
<b>Immunogen Catalog Number:</b> AG0306	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : SKOV-3 cells, human thyroid gland tissue
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human ovary tumor tissue, human ovary cancer tissue, human thyroid cancer tissue, human tonsillitis tissue, mouse kidney tissue, rat kidney tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF-P :</b> mouse kidney tissue,
<b>Cited Species:</b> human, mouse	<b>IF/ICC :</b> SKOV-3 cells,

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

## 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.

PAX8 has 5 isoforms with calculated MW 31kd, 34kd, 41kd, 43kd and 48kd. And there is a 60kd band corresponding to the electrophoretic mobility of PAX8 (PMID:15650356).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xue Tan	34631693	Front Cell Dev Biol	IHC,IF
Ping Qiu	35672291	Cell Death Discov	WB
Hyesung Kim	35778589	Sci Rep	IHC

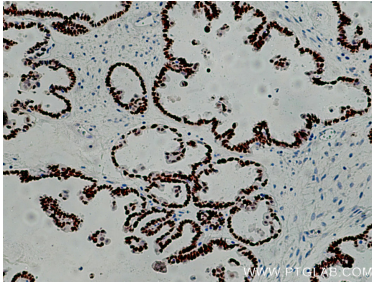
## Storage

**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

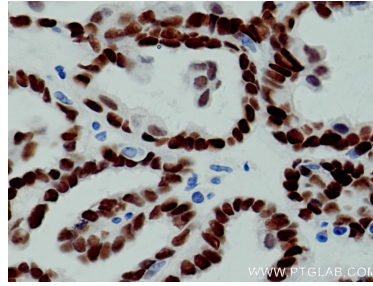
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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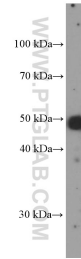
## Selected Validation Data



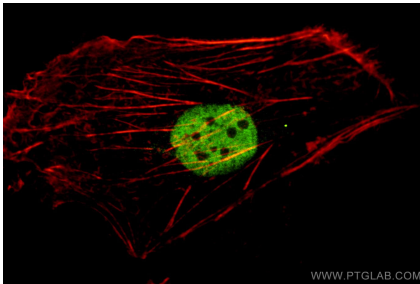
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60145-4-Ig (PAX8 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60145-4-Ig (PAX8 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



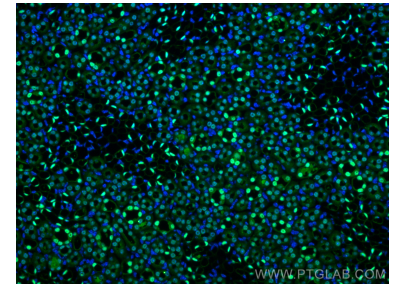
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 60145-4-Ig (PAX8 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Confocal immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using 60145-4-Ig (PAX8 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Phalloidin stains F-actin (Red).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 60145-4-Ig (PAX8 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using PAX8 antibody (60145-4-Ig, Clone: 4H7B3) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).