

For Research Use Only

PAX8 Polyclonal antibody

Catalog Number: 10336-1-AP

Featured Product

527 Publications



Basic Information

Catalog Number:

10336-1-AP

Concentration:

500 ug/ml

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:800-1:3200

IF-P 1:200-1:800

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ELISA

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, rabbit, zebrafish, 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 cancer tissue, human renal cell carcinoma tissue, human thyroid cancer tissue, mouse kidney tissue

IF-P : mouse kidney tissue,

IF/ICC : SKOV-3 cells,

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 |
| B Ilhan | 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, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

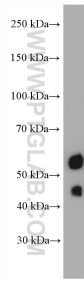
T: 4006900926

E: Proteintech-CN@ptglab.com

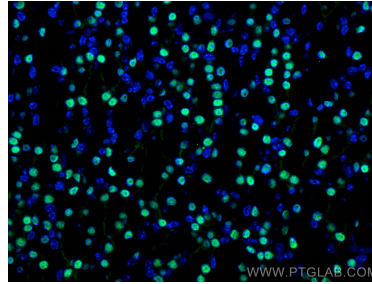
W: ptgcn.com

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

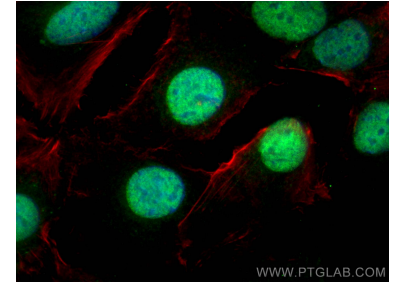
Selected Validation Data



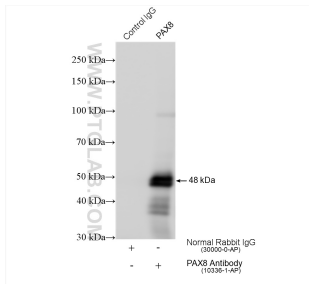
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 10336-1-AP (PAX8 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



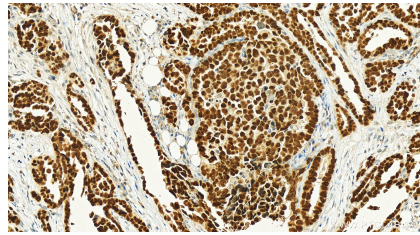
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using PAX8 antibody (10336-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using PAX8 antibody (10336-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 10336-1-AP (PAX8 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).