

For Research Use Only

# PKNOX2 Polyclonal antibody

Catalog Number: 20352-1-AP

2 Publications



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>20352-1-AP  | <b>GenBank Accession Number:</b><br>BC045626  | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 1000 ug/ml by Nanodrop and 600 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>63876                | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:20-1:200 |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q96KN3                  |  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>PBX/knotted 1 homeobox 2 |  |
| <b>Immunogen Catalog Number:</b><br>AG14195   | <b>Calculated MW:</b><br>472 aa, 52 kDa       |  |
|   | <b>Observed MW:</b><br>70 kDa, 55 kDa         |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, ELISA  | <b>Positive Controls:</b><br>WB : RAW 264.7 cells, RAW264.7 cells<br>IHC : human kidney tissue, |
| <b>Cited Applications:</b><br>WB, IF, RIP  |   |
| <b>Species Specificity:</b><br>human, mouse  |   |
| <b>Cited Species:</b><br>mouse, pig  |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

PKNOX2, PBX/knotted 1 homeobox 2, also named as PREP2, belongs to the three-amino acid loop extension (TALE) homeobox family. As it contains a DNA-binding motif, PKNOX2 may function as a nuclear transcription factor, experiments have reported the PKNOX2 protein locates to the nucleus. It was showed that highest expression of a 4-kb PREP2 (PKNOX2) transcript in heart, brain, skeletal muscle, and ovary (PMID:11972344). Several years later, PKNOX2 was identified as one of the cis-regulated genes for alcohol addiction in mice, however it has not been reported to be associated with any similar phenotype in humans to date (PMID:19721000). The molecular weight of the protein may differ from the theoretical value.

## Notable Publications

| Author          | Pubmed ID | Journal                    | Application |
|-----------------|-----------|----------------------------|-------------|
| Yoshiaki Miyake | 34311199  | Biochem Biophys Res Commun | IF          |
| Mengxun Li      | 37047747  | Int J Mol Sci              | WB, RIP     |

## Storage

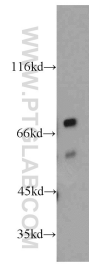
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

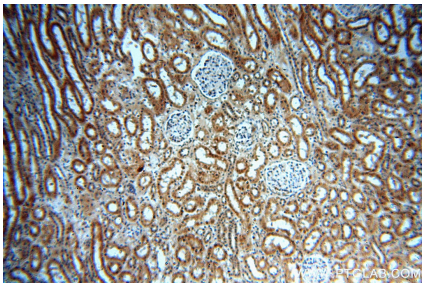
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

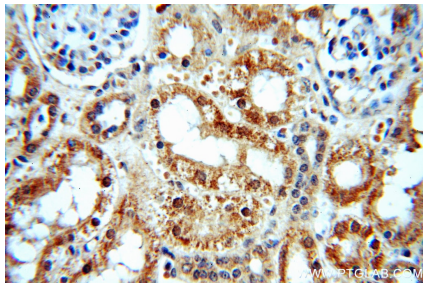
Selected Validation Data



RAW264.7 cells were subjected to SDS PAGE followed by western blot with 20352-1-AP (PKNOX2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 20352-1-AP (PKNOX2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 20352-1-AP (PKNOX2 antibody) at dilution of 1:50 (under 40x lens).