

For Research Use Only

PKNOX2 Polyclonal antibody

Catalog Number: 20352-1-AP **2 Publications**



Basic Information

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

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : RAW 264.7 cells, RAW264.7 cells IHC : human kidney tissue,
Cited Applications: IF, RIP, WB	
Species Specificity: human, mouse	
Cited Species: mouse, pig	
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

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

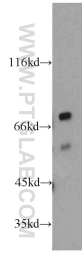
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

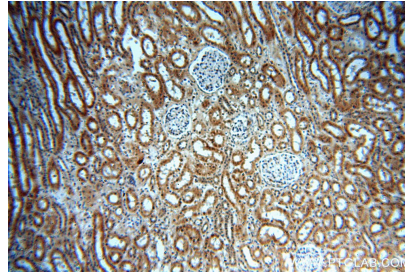
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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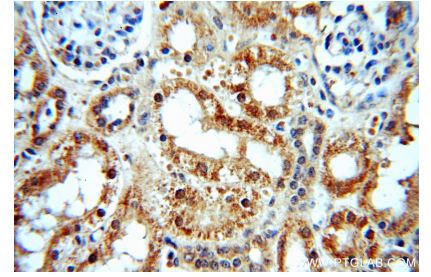
Selected Validation Data



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).