

# PDRG1 Polyclonal antibody

Catalog Number: 16968-1-AP

4 Publications

## Basic Information

<b>Catalog Number:</b> 16968-1-AP	<b>GenBank Accession Number:</b> BC009334	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 240 µg/ml	<b>GeneID (NCBI):</b> 81572	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NUG6	IHC 1:20-1:200
<b>Isotype:</b> IgG	<b>Full Name:</b> p53 and DNA damage regulated 1	IF 1:10-1:100
<b>Immunogen Catalog Number:</b> AG9109	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 16 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB:</b> Jurkat cells,
<b>Species Specificity:</b> human, mouse, rat	<b>IHC:</b> human kidney tissue, human liver tissue
<b>Cited Species:</b> Artemia sinica, human, mouse	<b>IF:</b> HepG2 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

PDRG1 codes for a novel protein called p53 and DNA damage-regulated protein 1. Human PDRG1 is predominantly expressed in normal testis and its expression can be induced by UV irradiation and be repressed by p53 [PMID14562055]. Recently, PDRG1 was identified as a novel tumor marker for multiple malignancies that is selectively regulated by genotoxic stress. Its expression was upregulated in multiple malignancies including cancers of the colon, rectum, ovary, lung, stomach, breast and uterus when compared to normal tissues [PMID: 21193842], suggesting its being a novel tumor marker that could play a role in cancer development and/or progression.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wan Zhang	29301330	Int J Mol Sci	WB
Paul Yenerall	31883965	Cell Chem Biol	WB
Yi Zheng	30179733	DNA Repair (Amst)	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

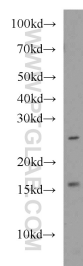
For technical support and original validation data for this product please contact:

T: 4006900926

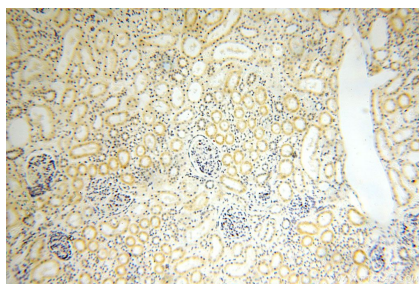
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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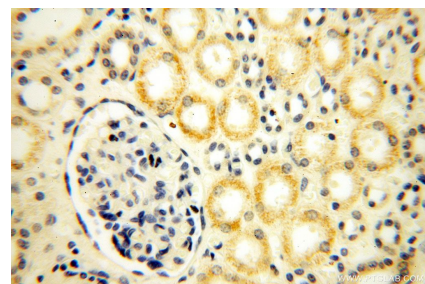
## Selected Validation Data



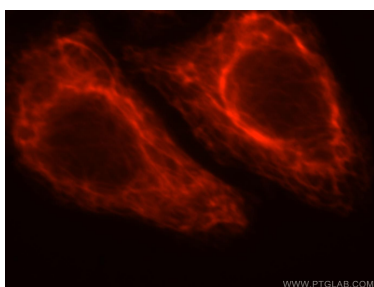
Jurkat cells were subjected to SDS PAGE followed by western blot with 16968-1-AP (PDRG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 16968-1-AP (PDRG1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 16968-1-AP (PDRG1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using PDRG1 antibody 16968-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).