

For Research Use Only

# EPG5 Polyclonal antibody

Catalog Number: 27666-1-AP



## Basic Information

<b>Catalog Number:</b> 27666-1-AP	<b>GenBank Accession Number:</b> BC130614	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57724	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HCEO	
<b>Isotype:</b> IgG	<b>Full Name:</b> KIAA1632	
<b>Immunogen Catalog Number:</b> AG24801	<b>Calculated MW:</b> 2579 aa, 292 kDa	
	<b>Observed MW:</b> 270-290 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse	<b>WB :</b> HEK-293 cells, HeLa cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human kidney tissue,

## Background Information

EPG5, a metazoan-specific autophagy protein, regulates autophagy by promoting fusion of autophagosomes with lysosomes and/or late endosomes. EPG5 regulates the stability and the assembly of STX17-SNAP29-VAMP8 trans-SNARE complexes. Loss of function of EPG5 causes non-specific fusion of autophagosomes with other endocytic vesicles, resulting in formation of non-degradative enlarged vesicles. EPG5 expression in human pluripotent stem cells like ESC and iPSC is higher than that of human somatic cells.(PMID: 30931944, PMID: 27588602)

## Storage

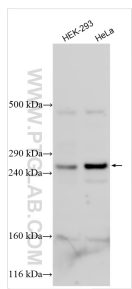
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

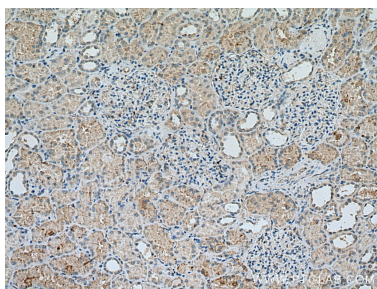
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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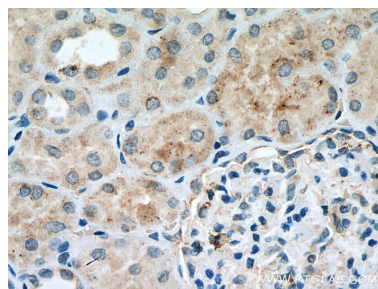
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27666-1-AP (EPG5 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27666-1-AP (KIAA1632 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27666-1-AP (KIAA1632 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).