

EPG5 Polyclonal antibody

Catalog Number: 27666-1-AP

Basic Information

Catalog Number:

27666-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24801

GenBank Accession Number:

BC130614

GeneID (NCBI):

57724

UNIPROT ID:

Q9HCEO

Full Name:

KIAA1632

Calculated MW:

2579 aa, 292 kDa

Observed MW:

270-290 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, mouse

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 : HEK-293 cells, HeLa cells

IHC : 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:

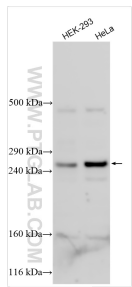
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

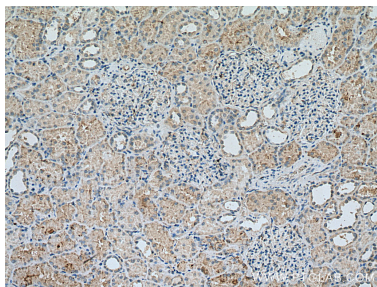
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

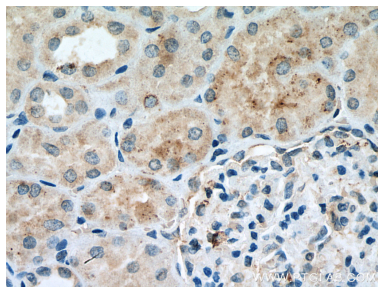
Selected Validation Data



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).