

For Research Use Only

PIGK Polyclonal antibody

Catalog Number: 15151-1-AP

4 Publications



Basic Information

Catalog Number:

15151-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3497

GenBank Accession Number:

BC026186

GeneID (NCBI):

10026

UNIPROT ID:

Q92643

Full Name:

phosphatidylinositol glycan anchor biosynthesis, class K

Calculated MW:

45 kDa

Observed MW:

40-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human, rat, monkey

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 : HT-1080 cells, SMMC-7721 cells, HepG2 cells

IHC : human ovary tumor tissue,

Background Information

Phosphatidylinositol glycan, class K (PIGK), is a crucial member of the glycosyl-phosphatidylinositol transamidase (GPIT) protein complex that attaches a diverse group of macromolecules to the plasma membrane of eukaryotes. The human PIGK gene is involved in the key step of transferring GPI-anchor to the respective protein molecules in the plasma membrane (PMID: 22824918). Endogenous PIGK has 2 isoforms, 45 kDa and 36 kDa (PMID: 34193731).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------|-----------|--------------------|-------------|
| Weifeng Gu | 39865246 | Stem Cell Res Ther | WB |
| Qiguang Li | 39580578 | Apoptosis | WB |
| Mengyan Hu | 37402721 | Nat Commun | WB |

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

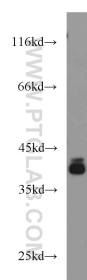
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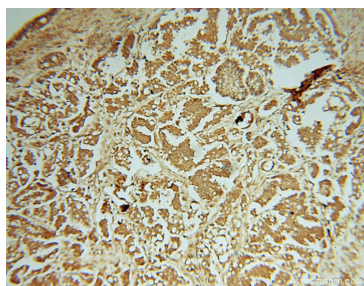
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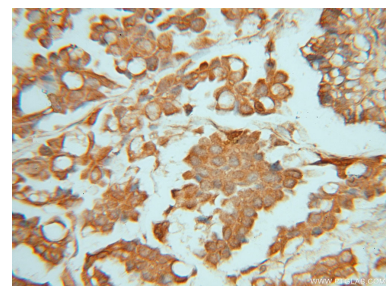
Selected Validation Data



HT-1080 cells were subjected to SDS PAGE followed by western blot with 15151-1-AP (PIGK antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 15151-1-AP (PIGK antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 15151-1-AP (PIGK antibody) at dilution of 1:50 (under 40x lens).