

For Research Use Only

# STK33 Polyclonal antibody

Catalog Number: 12857-1-AP

1 Publications



## Basic Information

### Catalog Number:

12857-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3561

### GenBank Accession Number:

BC031231

### GeneID (NCBI):

65975

### UNIPROT ID:

Q9BYT3

### Full Name:

serine/threonine kinase 33

### Calculated MW:

514 aa, 58 kDa

### Observed MW:

53 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

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 : human kidney tissue, mouse testis tissue

IP : HEK-293 cells,

IHC : human liver cancer tissue,

IF/ICC : A431 cells,

## Background Information

Serine/threonine kinase 33 (STK33) gene, which is identified in human chromosome 11 and mouse chromosome 7, encodes a serine/threonine kinase. STK33 belongs to a member of the calcium/calmodulin-dependent kinase (CAMK), which is mainly existed in testis, certain brain regions and embryonic organs such as brain, heart and spinal cord in human and mouse and is likely to participate in spermatogenesis and organ ontogenesis. (PMID: 30256516, PMID: 34536775)

## Notable Publications

Author	Pubmed ID	Journal	Application
Weiling Yu	37146716	Mol Cell Proteomics	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

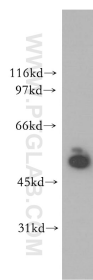
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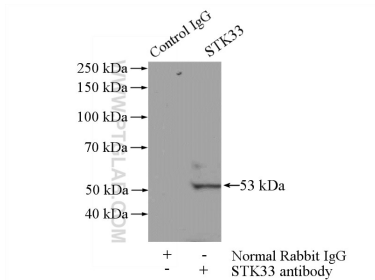
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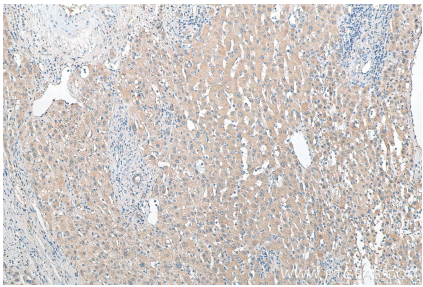
Selected Validation Data



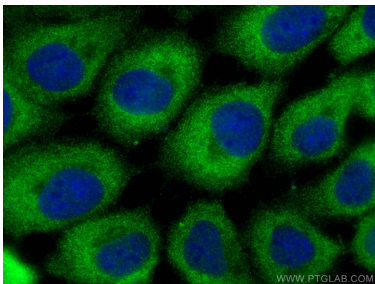
human kidney tissue were subjected to SDS PAGE followed by western blot with 12857-1-AP (STK33 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP result of anti-STK33 (IP:12857-1-AP, 4ug; Detection:12857-1-AP 1:300) with HEK-293 cells lysate 880ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12857-1-AP (STK33 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using STK33 antibody (12857-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).