

For Research Use Only

# ITIH3 Polyclonal antibody

Catalog Number: 21247-1-AP

4 Publications



## Basic Information

### Catalog Number:

21247-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG15750

### GenBank Accession Number:

BC107604

### GeneID (NCBI):

3699

### UNIPROT ID:

Q06033

### Full Name:

inter-alpha (globulin) inhibitor H3

### Calculated MW:

890 aa, 100 kDa

### Observed MW:

100 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 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : human serum tissue,

IP : human plasma tissue,

IHC : human stomach cancer tissue,

**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

ITIH3, or inter-alpha-trypsin inhibitor heavy chain 3, is a gene in humans that encodes the heavy chain subunit of the pre-alpha-trypsin inhibitor complex. This complex plays a role in stabilizing the extracellular matrix through its ability to bind hyaluronic acid. The gene is located on chromosome 3 and is part of the inter-alpha-trypsin inhibitor family gene cluster. ITIH3 has restricted expression primarily toward the liver, with an RPKM value of 228.8, indicating a relatively high level of expression in this organ.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chang Zhao	31548586	Sci Rep	WB
Xiaohui Liu	29123261	Br J Cancer	IHC
Jing Yu	35743699	J Pers Med	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

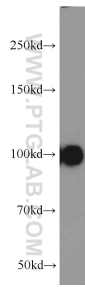
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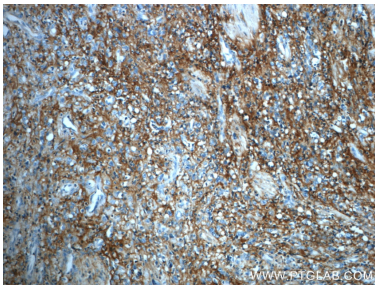
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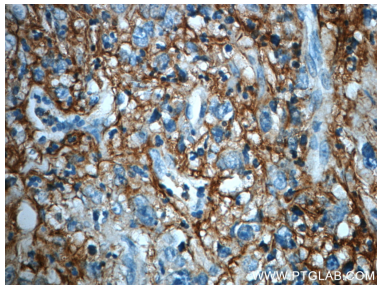
Selected Validation Data



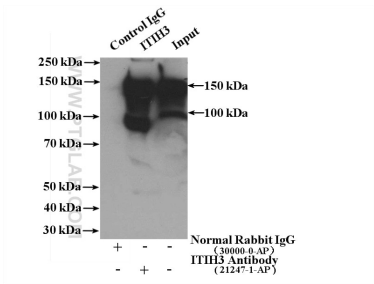
human serum were subjected to SDS PAGE followed by western blot with 21247-1-AP (ITIH3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer slide using 21247-1-AP (ITIH3 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human stomach cancer slide using 21247-1-AP (ITIH3 Antibody) at dilution of 1:50.



IP result of anti-ITIH3 (IP:21247-1-AP, 4ug; Detection:21247-1-AP 1:1000) with human plasma lysate 4000ug.