

For Research Use Only

# Follistatin Monoclonal antibody

Catalog Number: 60060-1-Ig

Featured Product

7 Publications



## Basic Information

Catalog Number:

60060-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG0775

GenBank Accession Number:

BC004107

GeneID (NCBI):

10468

UNIPROT ID:

P19883

Full Name:

follistatin

Calculated MW:

33 aa, 7 kDa

Observed MW:

35 kDa

Purification Method:

Protein A purification

CloneNo.:

4E9B10

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, camel

**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** : HeLa cells, HepG2 cells, Raji cells, U2OS cells, SKOV-3 cells, A549 cells, NCI-H1299 cells, Calu-3 cells

**IHC** : human ovary tumor tissue,

**IF/ICC** : HeLa cells,

## Background Information

Follistatin (FST) is a member of the tissue growth factor  $\beta$  family and is a secreted glycoprotein that antagonizes many members of the family, including activin A, growth differentiation factor11, and myostatin. It binds activin A with high affinity and whose expression can be induced by activin A and several other pro-inflammatory cytokines. Activin A-follistatin complexes are biologically inactive and bind to cell surface heparan sulphate-containing proteoglycans for internalisation and degradation. It has also been found to play a significant role in the management of skeletal muscle size and mass. It also has important roles in early embryonic development, differentiation of ovarian granulosa cells, liver fibrosis and polycystic ovarian syndrome. FS 288 glycosylation results in a major species of 35 kDa and a less abundant 40 kDa and minor products of 40 and 42 kDa (PMID: 9785474). Three typical follistatin bands are at 32, 35, and 39 kDa (PMID: 2036994).

## Notable Publications

Author	Pubmed ID	Journal	Application
Junlu Tong	36325432	Diabetes Metab Syndr Obes	WB,IHC,IF
Koki Yanazawa	34721976	PeerJ	WB,IF
Patrizia Carrarelli	26086422	Fertil Steril	IF

## Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

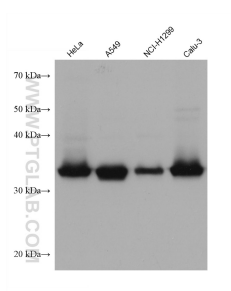
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

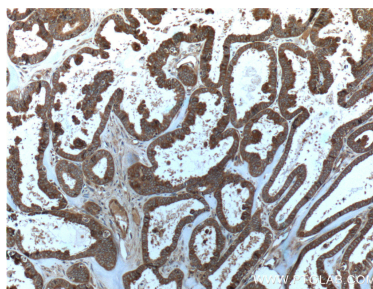
W: [ptgcn.com](http://ptgcn.com)

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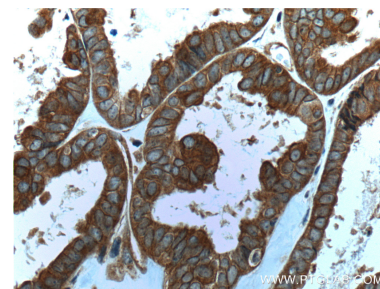
## Selected Validation Data



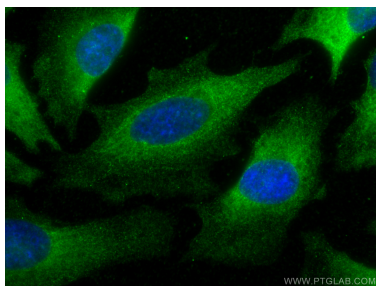
HeLa cells were subjected to SDS PAGE followed by western blot with 60060-1-Ig (Follistatin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60060-1-Ig (Follistatin antibody at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60060-1-Ig (Follistatin antibody at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Follistatin antibody (60060-1-Ig, Clone: 4E9B10 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).