

**Follistatin Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51216****Specification**

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**Follistatin Antibody - Product Information**

Application	WB, IP, IHC-P, E
Primary Accession	<a href="#">P19883</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70 KDa

**Follistatin Antibody - Additional Information****Gene ID** 10468**Other Names**

Follistatin, FS, Activin-binding protein, FST

**Dilution**

WB~~1:1000

IP~~N/A

IHC-P~~N/A

E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Follistatin Antibody - Protein Information****Name** FST ([HGNC:3971](#))**Function**

Multifunctional regulatory protein whose primary function is to antagonize members of the transforming growth factor beta (TGF-beta) superfamily including activin, myostatin, GDF11 or bone morphogenetic proteins (BMPs) (PubMed:<a href="http://www.uniprot.org/citations/11279126" target="\_blank">11279126</a>, PubMed:<a href="http://www.uniprot.org/citations/16482217" target="\_blank">16482217</a>, PubMed:<a href="http://www.uniprot.org/citations/18535106" target="\_blank">18535106</a>). Mechanistically, binds to these ligands in the extracellular space, blocking their type II receptor-binding site to inhibit downstream signaling (PubMed:<a href="http://www.uniprot.org/citations/16482217" target="\_blank">16482217</a>). Plays an essential role in muscle fiber formation and growth both by preventing the repressive effects of myostatin and through SMAD3/AKT/mTOR signaling independently of myostatin (By similarity).

Also promotes neural differentiation by antagonizing the action BMP4 (By similarity). Acts as a specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone (FSH) by sequestering activin A/INHBA (PubMed:<a href="http://www.uniprot.org/citations/11279126" target="\_blank">11279126</a>). On the other hand, translocates into the nucleus where it down-regulates rRNA synthesis and ribosome biogenesis to maintain cellular energy homeostasis by binding to rDNA.

**Cellular Location**

Secreted. Nucleus, nucleolus

**Tissue Location**

Isoform 1 is the predominant isoform in serum but is undetectable in follicular fluid. In the embryo, strong expression is seen in the palatal epithelia, including the medial edge epithelial and midline epithelial seam of the palatal shelves. Less pronounced expression is also seen throughout the palatal shelf and tongue mesenchyme (PubMed:31215115).

**Follistatin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Follistatin Antibody - Images****Follistatin Antibody - Background**

Binds directly to activin and functions as an activin antagonist. Specific inhibitor of the biosynthesis and secretion of pituitary follicle stimulating hormone (FSH).

**Follistatin Antibody - References**

Shimasaki S.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:4218-4222(1988).  
Goshima N.,et al.Nat. Methods 5:1011-1017(2008).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).  
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