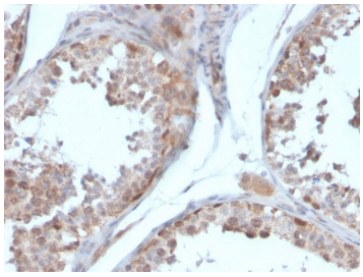
Follistatin Antibody / Activin Antagonist Antibody [clone FST/4281] (V8663)

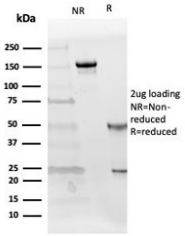
Catalog No.	Formulation	Size
V8663-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8663-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8663SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	FST/4281
Purity	Protein G affinity chromatography
UniProt	P19883
Localization	Secreted
Applications	ELISA: use in combination with clone FST/4282 for two-site ELISA Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This Follistatin Antibody / Activin Antagonist Antibody is available for research use only.



Follistatin Antibody / Activin Antagonist Antibody Human Testis IHC. Immunohistochemical staining of FFPE human testis tissue using Follistatin Antibody / Activin Antagonist Antibody (clone FST/4281). Follistatin expression is detected predominantly within the cytoplasm of seminiferous tubule cells, consistent with its role as a secreted activin antagonist that regulates spermatogenesis, reproductive function, and transforming growth factor beta signaling. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 minutes and allowing them to cool prior to immunostaining.



SDS-PAGE analysis of purified, BSA-free Follistatin antibody (clone FST/4281) as confirmation of integrity and purity.

Description

Follistatin Antibody / Activin Antagonist Antibody recognizes follistatin (FST), a secreted glycoprotein that functions as a potent extracellular antagonist of activins and several members of the transforming growth factor beta superfamily. By binding these ligands with high affinity, follistatin regulates signaling pathways that control embryonic development, tissue differentiation, cell proliferation, reproduction, muscle growth, and tissue repair. Among the best-characterized isoforms are FS288 and FS315, which differ in tissue distribution and biological activity while contributing to the diverse physiological functions of follistatin. Follistatin Antibody / Activin Antagonist Antibody is widely used to investigate transforming growth factor beta signaling, developmental biology, regenerative medicine, and endocrine regulation.

Follistatin is expressed in numerous tissues and modulates signaling by activins, myostatin, selected bone morphogenetic proteins, and additional transforming growth factor beta family ligands. Through these interactions, follistatin regulates mesoderm formation, organogenesis, skeletal muscle development, ovarian folliculogenesis, wound healing, and stem cell differentiation. The FS288 isoform binds strongly to cell surface heparan sulfate proteoglycans, whereas FS315 is more readily released into extracellular fluids, providing complementary mechanisms for localized and systemic regulation of growth factor signaling. This antibody recognizes both the FS288 and FS315 isoforms, enabling comprehensive analysis of endogenous follistatin expression.

Altered follistatin expression has been associated with muscle wasting disorders, fibrosis, reproductive disease, metabolic dysfunction, cardiovascular disease, and multiple forms of cancer. Because follistatin serves as a natural inhibitor of activin and myostatin signaling, it has become an important therapeutic target in regenerative medicine and neuromuscular research. Continued investigation of follistatin biology has expanded understanding of tissue regeneration, extracellular signaling, and developmental regulation across numerous physiological and pathological conditions.

NSJ Bioreagents' Follistatin Antibody / Activin Antagonist Antibody (clone FST/4281) is a mouse monoclonal antibody validated for immunohistochemistry and recognizes both the FS288 and FS315 isoforms of follistatin. This antibody provides reliable detection of endogenous follistatin while supporting investigations into activin signaling, muscle biology, embryonic development, reproductive physiology, tissue regeneration, and transforming growth factor beta pathway regulation.

Explore additional antibodies involved in developmental signaling, tissue differentiation, and organogenesis on our Developmental Biology Antibodies page.

Application Notes

Optimal dilution of the Follistatin Antibody / Activin Antagonist Antibody should be determined by the researcher.

Immunogen

Human FS288 was used as the immunogen for the Follistatin antibody.

Storage

Store the Follistatin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Follistatin antibody, FST antibody, Activin Antagonist antibody, Activin Binding Protein antibody, Follistatin 288 antibody, Follistatin 315 antibody

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