

Datasheet for ABIN1019720

Follistatin Protein (FST) (AA 30-217)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	Follistatin (FST)
Protein Characteristics:	AA 30-217
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Western Blotting (WB), Cell Culture (CC)

Product Details

Sequence:	HHHHHHGNCW LRQAKNGRCQ VLYKTELSKE ECCSTGRLST SWTEEDVNDN TLFKWMIFNG GAPNCIPCKE TCENVDCGPG KKCRMNKKNK PRCVCAPDCS NITWKGPVCG LDGKTYRNEC ALLKARCKEQ PELEVQYQGR CKKTCRDVFC PGSSTCVVDQ TNNAYCVTCN RICPEPASSE QYLCGNDGVT YSSACHLRKA TCLLGRSIGL AYEGKCIKAK SCEDIQCTGG KKCLWDFKVG RGRCSLCDEL CPDSKSDEPV CASDNATYAS ECAMKEAACS SGVLLEVKHS GSCN
Specificity:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 % SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by immune-detection with specific Follistatin antibody.
Characteristics:	Molecular Formula: C1350H2153N405O433S39 Isoelectric Point: 8.18 Extinction Coefficient: 1.28

Product Details

Endotoxin Level: < 0.04 EU/μg protein (LAL method)

Target Details

Target: Follistatin (FST)

Alternative Name: Follistatin ([FST Products](#))

Background: Synonyms: FS288, Activin-binding protein

Follistatin is a monomeric glycoprotein that binds to ligands of the TGF-beta superfamily and regulates their activity by inhibiting their access to signalling receptors. Follistatin received its name because it suppresses synthesis and secretion of follicle-stimulating hormone (FSH) from the pituitary gland. The follistatin gene localizes to chromosome 5q11.2. It is composed of a relatively small 6-kb genomic DNA consisting of six exons. There is an alternative splice site that generates two major species, a full-length version that encodes a 344-amino acid preprotein differing by a 27-amino acid sequence from its carboxy-shortened version of the 317-amino acid form missing exon 6. Prior to activation, follistatin, like myostatin, undergoes further posttranslational modification to lose another 29 amino acids by removal of the signal peptide that results in polypeptides of 315 (FS315), often referred to as the long isoform and 288 (FS288), called the short isoform.

Molecular Weight: 32.3 kDa

Pathways: [Negative Regulation of Hormone Secretion](#)

Application Details

Comment: rhuman Follistatin isoform 2 is a polypeptide chain containing 217 amino acids (30-217 of P19883 FST_HUMAN). It has a predicted molecular mass of 32.3 kDa. Human recombinant protein expressed in *Nicotiana benthamiana*. It is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal-derived components or impurities. Animal Free product. The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with coomassie blue.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Lyophilized protein should be reconstituted in water to a concentration of 50 ng/μL. Optimal

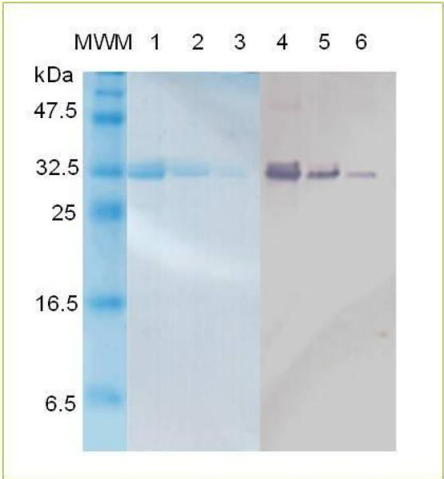
Handling

concentration should be determined for specific application and cell lines.

Buffer: Tris HCl 0.05M buffer at pH 7.4

Storage: 4 °C

Images



SDS-PAGE

Image 1. SDS-PAGE and Western blot analysis of human recombinant Follistatin. Lane MWM: molecular weight marker (kDa). Lane 1-3 Coomassie blue: 0.3 , 0.2 and 0.1µg of recombinant Follistatin, Lane 4-6 WB : 0.3, 0.2 and 0.1 µg of recombinant Follistatin.