

Human Follistatin ELISA Kit | FST elisa kit

Follistatin (Human) OmniKine ELISA Kit

CATALOG #
AAA315609

REACTIVITY
Human

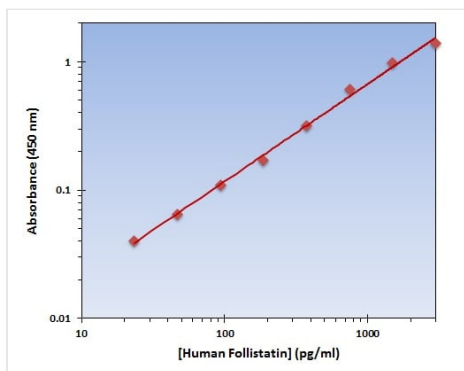
PRODUCT SYNONYMS

Follistatin; Follistatin (Human) OmniKine ELISA Kit; FS; Activin-binding protein; FST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine™ Human Follistatin ELISA is capable of recognizing both recombinant and naturally produced Human Follistatin proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Form/Format	12 x 8-Well Microstrips
Sequence Length	317
Assay Type	Quantitative Sandwich
Samples	Supernatants, Sera and Plasma
Sensitivity	47-3000 pg/ml
Detection Method	Colorimetric 450 nm
Subtype	None
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The OmniKine Human Follistatin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Follistatin proteins within the range of 23-3000 pg/ml.

ADDITIONAL INFORMATION

Related Product Information for FST elisa kit

Background: Human Follistatin or FS, also known as Activin-Binding Protein is a single-chain gonadal protein that specifically inhibits pituitary follicle-stimulating hormone (FSH) release. The single FST gene encodes two isoforms, FST317 and FST344 containing 317 and 344 amino acid residues respectively, resulting from alternative splicing of the precursor mRNA. Isoform 1 is the predominant isoform in serum but is undetectable in follicular fluid. Moreover, the FST gene is located at locus 5q11.2 on chromosome 5. The monomeric protein binds directly to Activin and functions as an Activin antagonist. In regards to the primary sequence, Follistatin contains 3 follistatin-like domains, 3 Kazal-like domains and a TB (TBF-beta binding) domain. Typical modifications to the protein include 2 potential glycosylation sites at the 124th or 288th residue along with multiple sites for disulfide bridge formation.

Principle of the Assay: The OmniKine™ Human Follistatin ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Follistatin concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Follistatin while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453652
NCBI GeneID	10468
NCBI Accession #	NP_006341.1
NCBI GenBank Nucleotide #	NM_006350.3
UniProt Accession #	P19883; Q9BTH0; B5BU94
Molecular Weight	34,803 Da
NCBI Official Full Name	follistatin isoform FST317
NCBI Official Synonym Full Names	follistatin
NCBI Official Symbol	FST
NCBI Official Synonym Symbols	FS
NCBI Protein Information	follistatin
UniProt Protein Name	Follistatin
UniProt Gene Name	FST
UniProt Synonym Gene Names	FS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.