

follistatin (H-114): sc-30194

BACKGROUND

Follistatin is a high affinity binding protein of activin originally isolated for its role in regulating the release of follicle-stimulating hormone (FSH). Follistatin forms a group of interrelated factors with activins and inhibins, members of the transforming growth factor β (TGFB) superfamily. Activin, follistatin and Activin receptors are expressed in many tissues, where they function as auto-crine/paracrine regulators of a variety of physiological processes including reproduction. Follistatin is an important regulator of pituitary FSH secretion.

REFERENCES

- Keutmann, H.T., et al. 2004. The role of follistatin domains in follistatin biological action. *Mol. Endocrinol.* 18: 228-240.
- Hurwitz, J.M., et al. 2004. Inhibins, activins, and follistatin in the aging female and male. *Semin. Reprod. Med.* 22: 209-217.
- Schneyer, A., et al. 2004. Differential actions of follistatin and follistatin-like 3. *Mol. Cell. Endocrinol.* 225: 25-28.
- Bilezikjian, L.M., et al. 2004. Autocrine/paracrine regulation of pituitary function by Activin, inhibin and follistatin. *Mol. Cell. Endocrinol.* 225: 29-36.

CHROMOSOMAL LOCATION

Genetic locus: FST (human) mapping to 5q11.2; Fst (mouse) mapping to 13 D2.2.

SOURCE

follistatin (H-114) is a rabbit polyclonal antibody raised against amino acids 231-344 mapping at the C-terminus of follistatin of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

follistatin (H-114) is recommended for detection of follistatin isoforms 1-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

follistatin (H-114) is also recommended for detection of follistatin isoforms 1-3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for follistatin siRNA (h): sc-39762, follistatin siRNA (m): sc-39763, follistatin shRNA Plasmid (h): sc-39762-SH, follistatin shRNA Plasmid (m): sc-39763-SH, follistatin shRNA (h) Lentiviral Particles: sc-39762-V and follistatin shRNA (m) Lentiviral Particles: sc-39763-V.

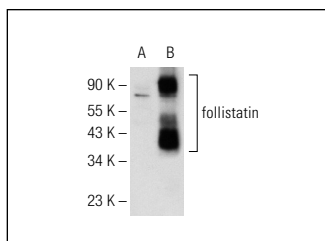
Molecular Weight of follistatin: 35-70 kDa.

Positive Controls: follistatin (h): 293T Lysate: sc-159980 or mouse recombinant follistatin.

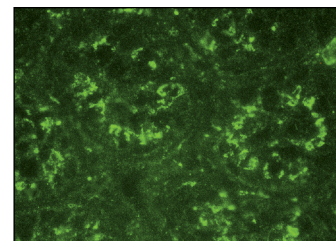
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



follistatin (H-114): sc-30194. Western blot analysis of follistatin expression in non-transfected: sc-117752 (A) and human follistatin transfected: sc-159980 (B) 293T whole cell lysates.



follistatin (H-114): sc-30194. Immunofluorescence staining of normal mouse intestine frozen section showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

- Lima, A.R., et al. 2010. Myostatin and follistatin expression in skeletal muscles of rats with chronic heart failure. *Int. J. Exp. Pathol.* 91: 54-62.
- Gao, X., et al. 2010. Nucleolar follistatin promotes cancer cell survival under glucose-deprived conditions through inhibiting cellular rRNA synthesis. *J. Biol. Chem.* 285: 36857-36864.
- Shtilbans, A., et al. 2011. Differential gene expression in patients with amyotrophic lateral sclerosis. *Amyotroph. Lateral Scler.* 12: 250-256.
- Damatto, R.L., et al. 2013. Heart failure-induced skeletal myopathy in spontaneously hypertensive rats. *Int. J. Cardiol.* 167: 698-703.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS
Satisfaction
Guaranteed

Try **follistatin (C-8): sc-365003** or **follistatin (D-12): sc-271502**, our highly recommended monoclonal alternatives to follistatin (H-114).