

## Datasheet

### Anti-Myostatin Clone Myo 2/1A

Product Name	Anti Human Myostatin Myo 2/1A
Catalogue Number	Myo2/1A
Clone, Isotype	Myo 2/1A
Format	IgG
Tested Applications	WB, ICC

#### Description:

Myostatin is a well-characterized negative regulator of skeletal muscle and can inhibit myogenesis and stimulate adipogenesis. Clone Myo 2/1A has been shown to have the reverse effect, up-regulate myogenesis and down-regulate adipogenesis. (Artaza, N et al.)

#### Product Details:

**Form in stock:** IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

**Host:** Mouse

**Specificity:** Recognizes the 113 amino acid carboxy-terminal fragment of Myostatin protein.

**Human Histology positive control:** Muscle fibre

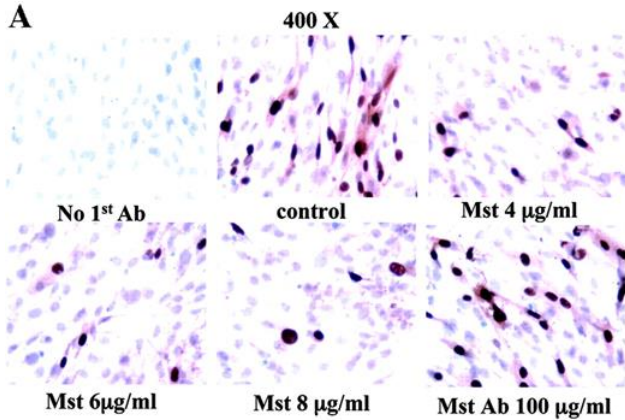
**Storage:** Store at +4°C or -20°C. Avoid repeated freezing and thawing.

**Shelf life:** 18 months from date of dispatch.

**Regulatory/ Restrictions:** For research and commercial purposes.

Applications	Suggested Dilution
Western Blot	1:500 <sup>1</sup>
Immunocytochemistry	100 µg/mL <sup>1</sup>

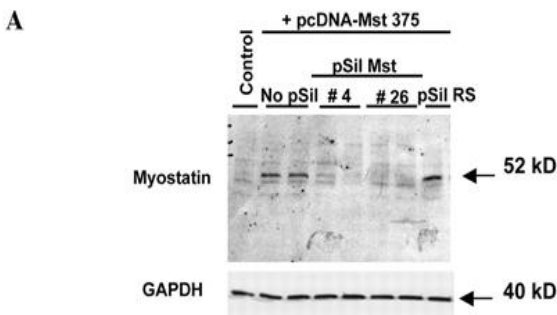
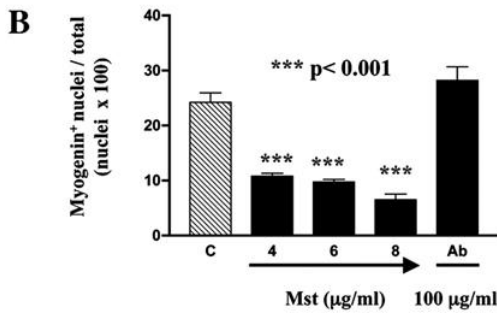
**Applications:**



Clone Myo 2/1A used to detect Myostatin expression by ICC

**Image caption:** Effect of recombinant Mst-113 protein and anti-Mst antibody on myogenesis in differentiating C3H 10T(1/2), assessed by using myogenin immunocytochemical staining. Cells were incubated with medium alone (C, control), graded concentrations of recombinant Mst-113 or anti-Mst antibody (Mst Ab) for 1 wk. A, Immunocytochemical staining using an antibody against myogenin; quantitative image analysis of stained cells is shown in B. Asterisks denote the *P* values for the statistical comparison of treatment group against medium control. No 1st Ab, Cells not treated with first antibody. Magnification, ×400 (Artaza, N et al.)

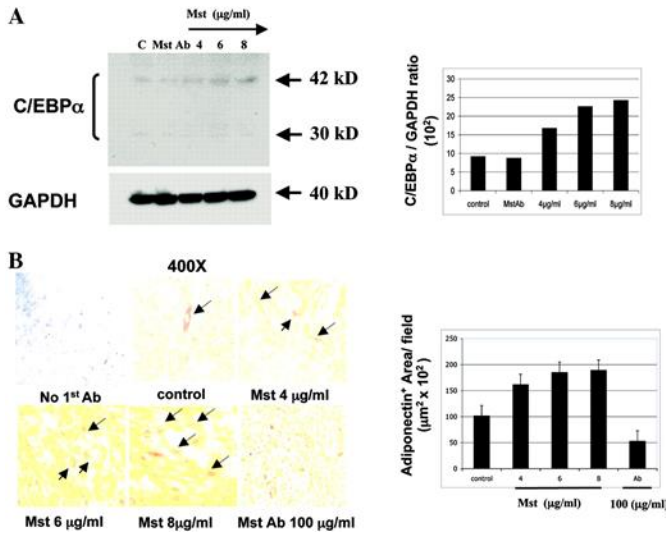
**Dilution used:** 100 µg/mL



Clone Myo 2/1A used to detect Myostatin expression by Western Blot with detection at 52 kDa

**Image caption:** A: Luminol detection of Western blots with monoclonal antibody against Mst at 3 d after transfection (Artaza, N et al.)

**Dilution used:** 1:500



Clone Myo 2/1A used to detect C/EBP  $\alpha$  to assess adipogenic differentiation C3H 10T(1/2) by IHC

**Image caption:** B, Cells were incubated for 4 d (C/EBP $\alpha$ ) and 1 wk (adiponectin) with graded concentrations of recombinant Mst-113 or anti-Mst antibody, and plates were divided for either trypsination and Western blot on the cell extracts (30  $\mu$ g/lane) with an antibody against C/EBP- $\alpha$  (Artaza, N et al.)

**Dilution used:** 100  $\mu$ g/mL

## References:

1. Artaza, J.N., Bhasin, S., Magee, T.R., Reisz-Porszasz, S., Shen, R., Groome, N.P., Fareez, M.M., Gonzalez-Cadavid, N.F. (2005) Myostatin Inhibits Myogenesis and Promotes Adipogenesis in C3H 10T(1/2) Mesenchymal Multipotent Cells. *Endocrinology*; 146 (8): 3547-3557.