Datasheet

Anti-Follistatin Clone H10

Product Name	Anti Human Follistatin 315 H10
Catalogue Number	H10
Clone, Isotype	H10, IgG2a
Format	IgG
Tested Applications	ELISA, IHC, WB

Description:
Follistatin is a single-chain glycosylated protein that inhibits follicle stimulating hormone (FSH) release. Alternative splicing of Follistatin mRNA yields two isoforms, FS315 and FS288. FS315 is considered the main circulating form of Follistatin. Clone H10 recognizes an epitope on the C-terminal region of human Follistatin 315, allowing for detection of FSH levels using various analysis methods. ELISA experiments showed that H10 interacts with FS315 and does not interact with FS288. (McPherson, S.J. et al. 1999)

Product Details:

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

Host: Mouse

Specificity: Synthetic peptide corresponding to sequence CDEDQDYSFPISSILEW of the C-terminal region of human Follistatin 315.

Human Histology positive control: Testis

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 µg/mL [1]
Immunohistochemistry - Paraffin	1:100 [2]
ELISA	Assay dependent

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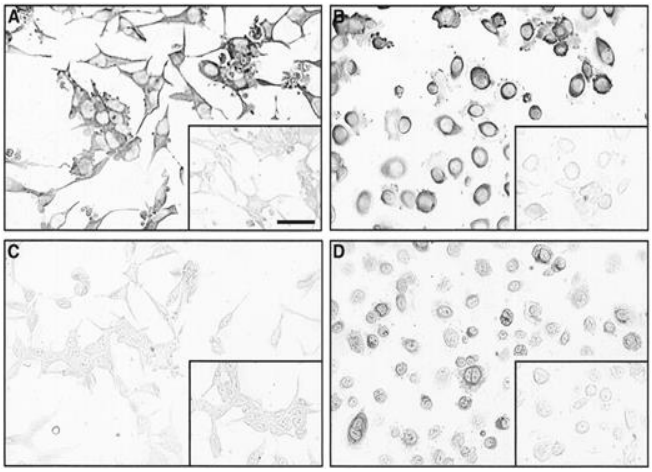
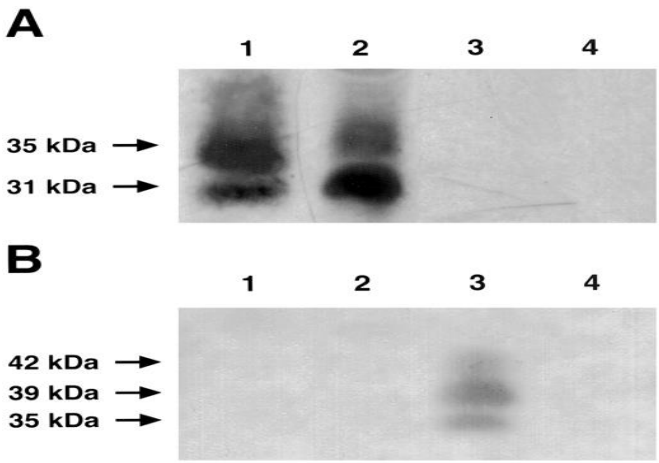
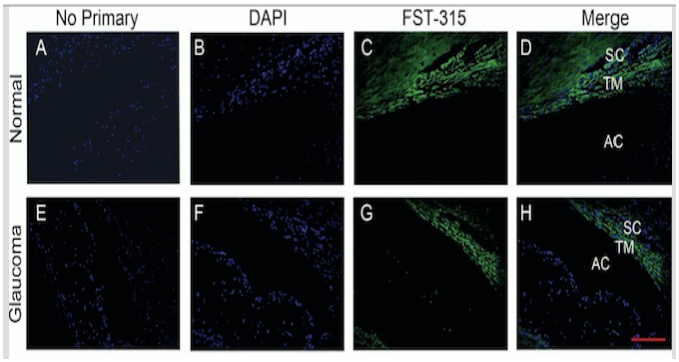
Applications:



Clone H10 used to detect immunoreactivity with FS315 by **IHC-P**.
Image caption: Immunolocalization of FS315 and FS288 to PC3 and LNCaP cell lines. Positive immunoreactivity for FS315 localized to the cytoplasm of the epithelial tumor cell lines LNCaP (A) and PC3 (B) using H10 antibody, no immunoreactivity was present if the antibody was preabsorbed with FS315 peptide (*inset A*, *inset B*). Mouse IgG antibody controls were negative (*inset C*, *inset D*). (McPherson, S.J. et al. 1999)
Concentration used: 6.75 µg/mL



Western Blots showing binding of H10 to isoforms of FS315 in prostate tumor cell lines
Image Caption: B. FS315 proteins corresponding to 35, 39, and 42K molecular weight isoforms of FS could only be detected by the H10 Ab (Fig. 3B) in lanes containing hrFS315 (lane 3). (McPherson, S.J. et al. 1999)
Concentration used: 1 µg/mL



Clone H10 used to detect expression of FS315 in TM cells by **IHC-P**
Image caption: ...FST 315 expression in NTM (**C**) and GTM (**G**) tissues... (Fitzgerald, A et al.)
Dilution used: 1:100

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References:

1. McPherson, S.J., Mellor, S.L., Wang, H., Evans, L.W., Groome, N.P., Risbridger, G.P. (1999) Expression of Activin A and Follistatin Core Proteins by Human Prostate Tumor Cell Lines. *Endocrinology; 140 (11): 5303-5309.*
2. Fitzgerald, A. M., Benz, C., Clark, A. F., Wordinger, R. J. (2012). The Effects of Transforming Growth Factor-β2 on the Expression of Follistatin and Activin A in Normal and Glaucomatous Human Trabecular Meshwork Cells and Tissues. *Investigative Ophthalmology & Visual Science*, *53(11), 7358–7369.*
3. Cancilla, B., Jarred, R.A., Wang, H., Mellor, S.L., Cunha, G.R., Risbridger, G.P. (2001) Regulation of Prostate Branching Morphogenesis by Activin A and Follistatin. *Developmental Biology, Volume 237, Issue 1, Pages 145-158, ISSN 0012-1606.* **IHC-P, Dilution used 5 µg/mL**

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