

Datasheet

Anti-Activin β -C Clone 1

Product Name	Anti Human Activin β -C Clone 1
Catalogue number	BetaC1
Clone, Isotype	Clone 1, IgG1
Format	IgG
Tested Applications	WB, IHC

Description:

Activin is part of the TGF-beta superfamily, known to regulate growth and differentiation of cells. The β -C subunit of Activin is expressed in a range of tissues having growth promoting and inhibitory properties. β -C Clone 1 recognizes the β -C subunit of Activin and is a useful stain to detect expression of the protein in hepatocyte cells.

Product Details:

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

Host: Mouse

Specificity: Synthetic peptide sequence VPTARRPLSLLYYDRDSNIKVTDIPMVVEAC which recognizes amino acids 82-113 of human Activin β -C subunit.

Human Histology positive control: Liver

Fusion partner: Spleen cells immunised from Balb/c were fused with cells of the mouse SP2/0 myeloma cell line.

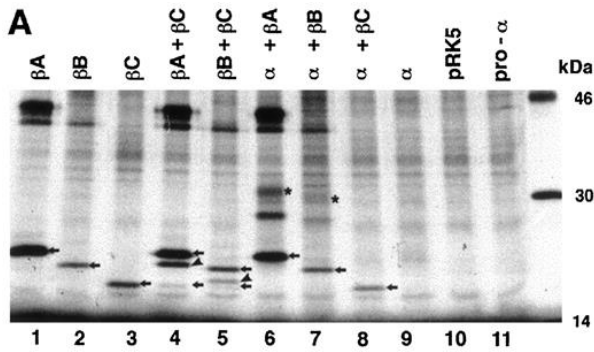
Storage: Store at +4°C or -20°C. Avoid repeated freezing and thawing.

Shelf life: 18 months from date of dispatch.

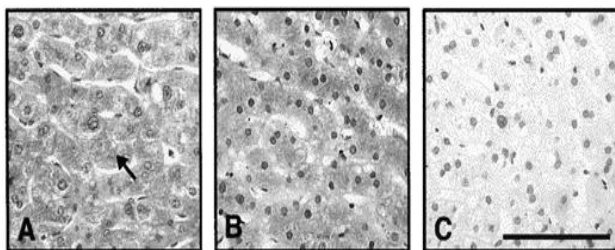
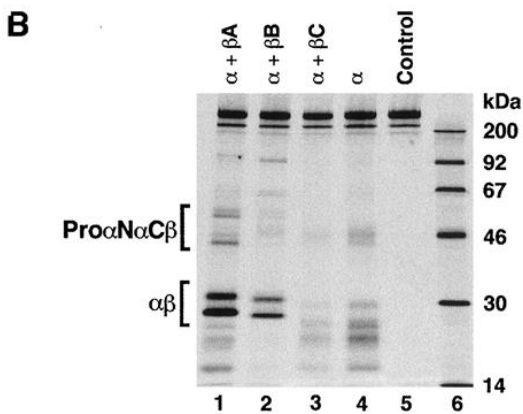
Regulatory/ Restrictions: For research and commercial purposes.

Applications	Suggested Dilution
Western Blot	1:3000-1:5000 ¹⁻³
Immunohistochemistry	5.0-5.8 μ g/mL ^{1,2}

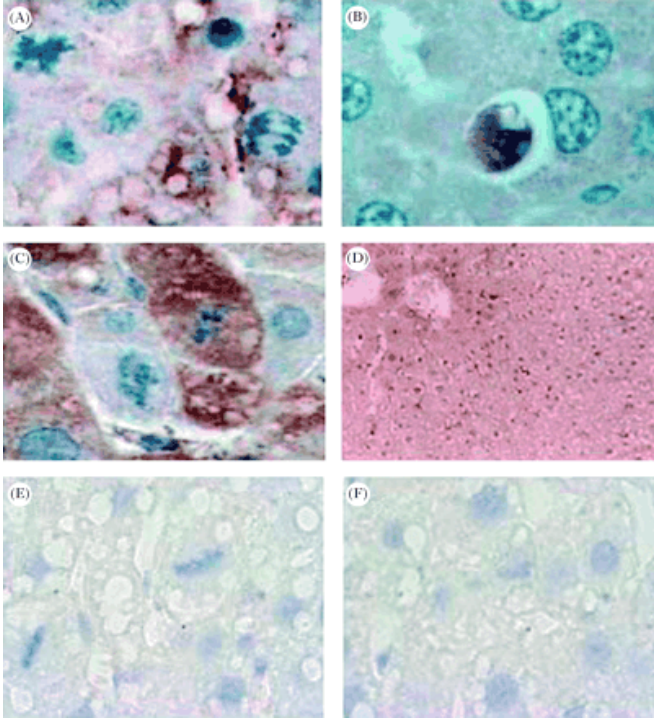
Applications:



Western Blot used to determine whether Beta C Clone 1 recognizes mono- and dimeric active Beta C
 (Mellor S, L et al.)
Dilution used: 1:5000



Beta C Clone 1 used to detect hepatocytes in human liver by **IHC**
Image caption: ... β_c -Subunit immunoreactivity was detected in hepatocytes in human liver sections with β_c clone 1 antibody supernatant ... (Mellor S, L et al.)
Dilution used: 5.8 $\mu\text{g}/\text{mL}$



Beta C Clone 1 used to detect hepatocytes in human liver by IHC

Image caption: ...C) Cytoplasmic β C-activin subunit immunoreactivity in association with mitosis. (D) β C-activin subunit immunoreactivity within hepatocyte nuclei... (Gold, E. J)

Dilution used: 5.0 μ g/mL

References:

1. Mellor, S.L., Cranfield, M., Ries, R., Pedersen, J., Cancilla, B., de Kretser, D., Groome, N.P., Mason, A.J., Risbridger, G.P. (2000) Localization of Activin β _A-, β _B-, and β _C-Subunits in Human Prostate and Evidence for Formation of New Activin Heterodimers of β _C-Subunit. *Journal of Clinical Endocrinology & Metabolism*; 85 (12): 4851-4858.
2. Mellor, S.L., Ball, E.M.A., O'Connor, A.E., Ethier, J., Cranfield, M., Schmitt, J.F., Phillips, D.J., Groome, N.P., Risbridger, G.P. (2003) Activin β _C-Subunit Heterodimers Provide a New Mechanism of Regulating Activin Levels in the Prostate. *Endocrinology*; 144 (10): 4410-4419. **WB, Dilution used 1:5000**
3. Gold, E. J. (2005) Beta A- and Beta C-activin, Follistatin, Activin Receptor mRNA and Beta C-activin Peptide Expression during Rat Liver Regeneration. *Journal of Molecular Endocrinology* 34.2; 505-15. **Aslo uses WB, Dilution 1:3000**