

Datasheet: MCA2535GA

Description:	MOUSE ANTI HUMAN ACTIVIN BetaC-SUBUNIT
Specificity:	ACTIVIN Beta C-SUBUNIT
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	betaC clone 1
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/5000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections, 0.01 mol/L glycine buffer solution (pH 4.4) is recommended for this purpose. See [Mellor et al.](#) for details.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Synthetic peptide sequence VPTARRPLSLLYDRDSNIVKTDIPDMVVEAC corresponding to amino acids 82-113 of mature human activin BetaC-subunit.
External Database Links	<p>UniProt: P55103 Related reagents</p> <p>Entrez Gene: 3626 INHBC Related reagents</p>
RRID	AB_2264807
Specificity	<p>Mouse anti Human Activin betaC-subunit antibody, clone 1 recognizes the BetaC-subunit of Activin (BetaC-activin), a member of the transforming growth factor beta (TGF-beta) superfamily and one of a group of proteins which regulate growth and differentiation in a range of cells and tissues, via both autocrine and paracrine pathways.</p> <p>Activins were originally characterised by the formation of specific homo- and heterodimers of activin BetaA- or BetaB-subunits, but additional subunits of activin have since been identified including BetaC, BetaD and BetaE. BetaC-activin, expressed in the liver, prostate, ovary and testis, has been shown to exhibit both growth promoting and inhibitory properties, and evidence suggests that BetaC-activin can form BetaC homodimers and also heterodimers with BetaA (putative activin AC) and BetaB (putative activin BC).</p> <p>Clone betaC clone 1 has been shown to recognize both monomeric and dimeric BetaC-activin and does not cross react with BetaA, BetaB or BetaE.</p>
Histology Positive Control Tissue	Liver. Staining localises to hepatocytes.
References	<ol style="list-style-type: none"> Mellor, S.L. <i>et al.</i> (2000) Localization of activin beta(A)-, beta(B)-, and beta(C)-subunits in human prostate and evidence for formation of new activin heterodimers of beta(C)-subunit. J Clin Endocrinol Metab. 85 (12): 4851-8. Mellor, S.L. <i>et al.</i> (2003) Activin betaC-subunit heterodimers provide a new mechanism of regulating activin levels in the prostate. Endocrinology. 144 (10): 4410-9. Gold, E.J. <i>et al.</i> (2005) betaA- and betaC-activin, follistatin, activin receptor mRNA and betaC-activin peptide expression during rat liver regeneration. J Mol Endocrinol. 34 (2):

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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