Datasheet: MCA2535GB

**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:** 50 µg

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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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

Reacts with: Rat

**N.B.** Antibody reactivity and working conditions may vary between species.

#### 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 (NaN₃)

#### Approx. Protein Concentrations

IgG concentration 0.5mg/ml
**Immunogen**  
Synthetic peptide sequence VPTARRPLSLYDRDSNIVKTDIPDMVVEAC corresponding to amino acids 82-113 of mature human activin BetaC-subunit.

**External Database Links**  
- **UniProt:**  
  P55103  
  Related reagents
- **Entrez Gene:**  
  3626  
  INHBC  
  Related reagents

**Specificity**  
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.

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).

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.

**Histology Positive Control Tissue**  
Liver. Staining localises to hepatocytes.

**References**

**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.

**Shelf Life**  
18 months from date of despatch.

**Health And Safety Information**  
Material Safety Datasheet documentation available at:  
Material Safety Datasheet Documentation #10040 available at:  

**Regulatory**  
For research purposes only

**Related Products**
Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549,
DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Goat Anti Mouse IgG (STAR70...) FITC
Rabbit Anti Mouse IgG (STAR13...) HRP
Human Anti Mouse IgG1 (HCA036...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents

HISTAR DETECTION SYSTEM (STAR3000B)