

Datasheet: MCA6237B

Description:	MOUSE ANTI HUMAN IFN BETA:Biotin
Specificity:	IFN BETA
Other names:	Fibroblast interferon
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	C06-4F6
Isotype:	IgG2a
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
ELISA	▪			1.0 ug/ml

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.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - 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) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human full length IFN beta (Met22-Asn187)

**External Database
Links**

UniProt:

[P01574](#) [Related reagents](#)

Entrez Gene:

[3456](#) IFNB1 [Related reagents](#)

Synonyms

IFB, IFNB

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human IFN beta antibody, clone C06-4F6, recognizes interferon beta (IFN beta) also known as fibroblast interferon, a type I interferon. It is constitutively expressed, but is synthesized at a higher level upon infection ([Takaoka & Taniguchi 2003](#)). IFN beta plays many roles within inflammation including limiting the immune response during inflammation through induction of IL-10 and can inhibit the inflammasome and IL-1 beta. It can also play a role in the reprogramming of macrophages to an inflammatory and pro-resolving phenotype ([Satyanarayanan et al. 2019](#)). These responses are mediated through its interaction with the IFN alpha/beta receptor with subsequent downstream activation of STAT1, 2 or 3 ([Takaoka & Taniguchi 2003](#)).

Beyond inflammation IFN beta has been observed to block cancer progression by reducing the recruitment of pro-angiogenic neutrophils into tumors ([Andzinski et al. 2015](#)).

The biotinylated Mouse anti Human IFN beta antibody, clone C06-4F6 (MCA6237B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human IFN beta antibody, clone F03-2G4 ([MCA6236GA](#)) as the capture antibody.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN IFN BETA \(MCA6236GA\)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 21 Mar 2022

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