

Datasheet: MCA6237B

BATCH NUMBER 100005188

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	0.09% Sodium Azide (NaN ₃)
Stabilisers	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	<p>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).</p> <p>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).</p> <p>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.</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6237B 10041</p>
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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