

Datasheet: MCA6243B

Description:	MOUSE ANTI HUMAN INTERLEUKIN-17A:Biotin
Specificity:	IL-17A
Other names:	CTLA-8
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	F01.1-5D10
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
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 interleukin-17A (Gly24-Ala155)

**External Database
Links**

UniProt:

[Q16552](#) [Related reagents](#)

Entrez Gene:

[3605](#) IL17A [Related reagents](#)

Synonyms

CTLA8, IL17

Fusion Partners

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

Specificity

Mouse anti Human interleukin-17A, clone F01.1-5D10, recognizes interleukin-17A (IL-17A) also known as cytotoxic T-lymphocyte-associated antigen 8 (CTLA-8).

The IL-17 family consists of six proteins (IL-17A to IL-17F) which function as pro-inflammatory cytokines important in the defense against pathogens ([Gurczynski & Moore 2017](#)). This antibody recognizes IL-17A, the most studied member of the IL-17 family. IL-17A is expressed by various cell types including CD4⁺ and CD8⁺ T helper cells, neutrophil, natural killer, mast and B cells ([Chen & Kolls 2017](#)). It elicits its responses via the IL-17 receptor, IL-17RA. Activation of this receptor leads to the activation of NF-κB and mitogen-activated protein kinase to then drive the transcriptional activation of target genes which play key roles in inflammation. IL-17A can also signal to stabilize mRNA transcripts, again to enhance the production of genes including those encoding cytokines, chemokines, antimicrobial peptides and other inflammatory effectors. ([Monin & Gaffen 2018](#)). Uncontrolled IL-17A signaling is associated with immunopathology, autoimmune diseases, and cancer, and blocking activity of IL-17A can be beneficial in some clinical settings ([Amatya et al. 2017](#)).

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:
<https://www.bio-rad-antibodies.com/SDS/MCA6243B>
10041

Regulatory

For research purposes only

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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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