

Datasheet: MCA1495

Description:	RAT ANTI MOUSE INTERLEUKIN-5
Specificity:	IL-5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TRFK5
Isotype:	IgG1
Quantity:	0.5 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 (1)	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting	■			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

Target Species	Mouse
Species Cross Reactivity	Reacts with: Human, Pig, Guinea Pig 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 A from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Purified natural murine IL-5

**External Database
Links**

UniProt:

[P04401](#)

[Related reagents](#)

Entrez Gene:

[16191](#)

IL5

[Related reagents](#)

Synonyms

IL-5

Specificity

Rat anti mouse IL-5, clone TRFK5 recognizes [mouse interleukin-5](#). IL-5 is a regulatory cytokine that induces terminal differentiation of late-developing B-cells to immunoglobulin secreting cells.

Rat anti mouse IL-5, clone TRFK5 may be used to neutralize IL-5 bioactivity in a functional assay ([Schumacher. et al. 1988](#)) and [Abrams et al. 1992](#)).

References

1. Schumacher, J.H. *et al.* (1988) The characterization of four monoclonal antibodies specific for mouse IL-5 and development of mouse and human IL-5 enzyme-linked immunosorbent. [J Immunol. 141 \(5\): 1576-81.](#)
2. Abrams, J.S. *et al.* (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. [Immunol Rev. 127: 5-24.](#)
3. Röcken, M. *et al.* (1992) Central role for TCR/CD3 ligation in the differentiation of CD4+ T cells toward A Th1 or Th2 functional phenotype. [J Immunol. 148 \(1\): 47-54.](#)
4. Betz, M. & Fox, B.S. (1990) Regulation and development of cytochrome c-specific IL-4-producing T cells. [J Immunol. 145 \(4\): 1046-52.](#)
5. Akdis, C.A. *et al.* (1996) Epitope-specific T cell tolerance to phospholipase A2 in bee venom immunotherapy and recovery by IL-2 and IL-15 *in vitro*. [J Clin Invest. 98 \(7\): 1676-83.](#)
6. Portanova, J.P. *et al.* (1995) Rapid and selective induction of blood eosinophilia in guinea pigs by recombinant human interleukin 5. [Cytokine. 7 \(8\): 775-83.](#)

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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

Rabbit Anti Rat IgG (STAR17...)

[FITC](#)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)

Goat Anti Rat IgG (STAR131...)

[Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR69...)

[FITC](#)

Goat Anti Rat IgG (STAR72...)

[HRP](#)

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

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