

Datasheet: MCA2401

Description:	RAT ANTI MOUSE MHC CLASS II H-2I-Ak/d/b/q/r
Specificity:	MHC CLASS II H-2I-Ak/d/b/q/r
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-TR3
Isotype:	IgG2b
Quantity:	0.25 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	▪			
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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Isolated C3H thymic stromal cells.
Fusion Partners	Cells from immunised rats were fused with cells of the mouse P3-X63-Ag8.563 myeloma cell line.

Specificity **Rat anti Mouse MHC Class II H-2I-Ak/D/B/Q/R antibody, clone ER-TR3** recognizes a polymorphic determinant of the mouse H-2I-A MHC class II antigen, reacting with haplotypes k, d, b, q and r. Mouse strains with the haplotypes s and f are not recognized by this antibody.

Mouse MHC class II antigens are expressed by dendritic cells, B cells and macrophages. In thymus tissues, clone ER-TR3 stains cortical and medullary stromal cells.

The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the H-2 region.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Huiskamp, R. *et al.* (1985) Repopulation of the mouse thymus after sublethal fission neutron irradiation. II. Sequential changes in the thymic microenvironment. [J Immunol. 134 \(4\): 2170-8.](#)
2. Van Vliet, E. *et al.* (1985) Stromal cell types in the developing thymus of the normal and nude mouse embryo. [Eur J Immunol. 15 \(7\): 675-81.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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

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'M315687:180503'

Printed on 05 May 2018

