

## Product datasheet for **BM4094B**

### MHC Class II (I-A k,b,d,q,r) Rat Monoclonal Antibody [Clone ID: ER-TR3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	ER-TR3
Applications:	FC, IHC
Recommended Dilution:	<b>Immunohistochemistry on Frozen Sections:</b> 4 µg/ml (1/100). <i>Suggested Positive Control:</i> Mouse spleen. Does not react on routinely processed paraffin sections. Has been reported to work in <b>Flow Cytometry</b> .
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Murine thymic reticulum
Specificity:	This antibody detects cells expressing MHC class II antigens. Monoclonal antibody ER-TR3 detects MHC class II antigens encoded by the murine Ia region of the H-2 complex, corresponding to the human HLA-DR region. It is a valuable tool for studying T-helper cell interaction with class II positive antigen presenting cells (dendritic cells, B-cells, macrophages). This antibody also offers new possibilities for studying the development of T-helper cells since it also stains stromal cells in the thymus. <b>Antigen Distribution</b> <b>Isolated Cells:</b> The antigen is found on dendritic cells, B-cells and macrophages. <b>Tissue sections:</b> The antigen is found on B-cells, interdigitating cells and macrophages in peripheral lymphoid organs but is absent from T-cells. It is also expressed as a fine reticular pattern on stromal thymic cells of the cortex and as a confluent pattern on stromal thymic cells of the medulla.
Formulation:	Stock Solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer with no preservative Label: Biotin State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.4 mg/ml



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- Purification:** Affinity Chromatography
- Conjugation:** Biotin
- Storage:** Store lyophilized at 2-8°C and reconstituted at -20°C. Avoid repeated freezing and thawing.
- Stability:** Shelf life: One year from despatch.
- Background:** MHC Class II antigens are heterodimers consisting of one alpha chain (31-34kD) and one beta chain (26-29kD). The family of monoclonal antibodies (ER-TR3, ER-TR2, ER-TR1) detect MHC class II antigens encoded by the murine Ia region of the H-2 complex, corresponding to the Human HLA-DR region. MHC Class II antigens are a valuable tool for studying T helper cell interaction with class II positive antigen presenting cells (dendritic cells, B cells, macrophages) and offer new possibilities for studying the development of T helper cells since these antibodies also stain stromal cells in the thymus. MHC Class II antigens are also inducible on a number of other cells (endothelium and epithelial cells) by interferon gamma.

### Product images:

Strain	Haplotype							Clone		
	K	A	B	J	E	C	D	ER-TR1	ER-TR2	ER-TR3
C3H/HeJ	k	k	k	k	k	k	k	48*	46	46
AKR	k	k	k	k	k	k	k	54	52	54
B10.BR	k	k	k	k	k	k	k	59	58	62
B10.ScSn	b	b	b	b	b	b	b	4	5	50
Balb/b	b	b	b	b	b	b	b	4	3	39
B10.D2/n	d	d	d	d	d	d	d	56	5	54
Balb/c	d	d	d	d	d	d	d	45	3	44
DBA/2	d	d	d	d	d	d	d	27	4	47
B10.G	q	q	q	q	q	q	q	53	4	46
DBA/1	q	q	q	q	q	q	q	52	6	54
SWR/J	q	q	q	q	q	q	q	49	3	49
A.SW	s	s	s	s	s	s	s	4	20	6
B10.M	f	f	f	f	f	f	f	4	5	3
B10.RIII	r	r	r	r	r	r	r	39	39	40
B10.AQR	q	k	k	k	k	d	d	52	52	51
B10.T(6R)	q	q	q	q	q	q	d	50	3	52
A.TL	s	k	k	k	k	k	d	29	52	51
A.TH	s	s	s	s	s	s	d	5	49	7

Distribution of ER-TR1, ER-TR2 and ER-TR3 among Mouse strains with independent and recombinant haplotypes\*

\* Percentage of labelled cells, determined by FACS analysis of spleen cell suspensions