

Product datasheet for **BM4095**

MHC Class II (I-A k,s,r) Rat Monoclonal Antibody [Clone ID: ER-TR2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ER-TR2
Applications:	FC, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1 µg/ml (1/200). <i>Suggested Positive Control:</i> Mouse spleen. Has been described to work in FACS . Does not react on routinely processed paraffin sections.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Murine thymic reticulum Remarks: MHC Class II antigens are heterodimers consisting of one α -chain (31-34kDa) and one β -chain (26-29kDa). The epitope has not been further characterized.
Specificity:	This antibody detects cells expressing MHC class II antigens. Monoclonal antibody ER-TR2 is one member of a family of monoclonal antibodies (ER-TR3, ER-TR2, ER-TR1) which detect MHC class II antigens encoded by the murine Ia region of the H-2 complex. They are valuable tools for studying T helper cell interaction with class II positive antigen presenting cells (dendritic cells, B-cells, macrophages). These antibodies also offer new possibilities for studying the development of T helper cells since they also stain stromal cells in the thymus. Isolated cells: The antigen is found on dendritic cells, B-cells and macrophages. The level of antigen detected by ER-TR1, ER-TR2 and ER-TR3 differs from strain to strain (see table on back). Tissue Sections: 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.



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Formulation:	Phosphate buffered saline, pH 7.2 (PBS) State: Purified State: Lyophilized purified Ig fraction Stabilizer: 5 mg/ml BSA Preservative: 0.05% Kathon CG
Reconstitution Method:	Restore with 0.5 ml distilled water (=stock solution).
Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized product at 2-8 °C. Following reconstitution store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Note:	Protocol: Protocol with frozen, ice-cold acetone-fixed sections: The whole procedure is performed at room temperature 1. Wash in PBS 2. Block endogenous peroxidase 3. Wash in PBS 4. Block with 10 % normal goat serum in PBS for 30 min. in a humid chamber 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber 6. Wash in PBS 7. Incubate with secondary antibody (peroxidase-conjugated goat anti rat IgG (H+L) minimal-cross reaction to mouse) for 1h in a humid chamber 8. Wash in PBS 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min. 10. Wash in PBS 11. Counterstain with Mayer's hemalum

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

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

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