Product datasheet for BM4094F

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:	**Flow Cytometry:** 10 µg/ml (Use 10 µl of 1/10 diluted antibody to label 10e6 cells). *Suggested Positive Control:* mouse spleen. Has beed described to work in FACS.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Murine thymic reticulum.
Specificity:	This antibody is specific for cells expressing MHC class II antigens. **Antigen, epitope:** MHC Class II antigens are heterodimers consisting of one alpha-chain (31-34 kD) and one beta-chain (26-29 kD). **Antigen Distribution:** **Isolated Cells:** The antigen is found on dendritic cells, B-cells and macrophages. The level of antigen detected by ER-TR1, ER-TR 2 and ER-TR 3 differs from strain to strain (see table below). **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. Monoclonal antibody ER-TR 3 is one member of a family of monoclonal antibodies (ER-TR 3, ER-TR 2, ER-TR 1) which detect MHC class II antigens encoded by the murine Ia region of the H-2 complex, corresponding to the human HLA-DR region. 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.

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Formulation:	Phosphate buffered saline pH 7.2 (PBS) containing 10 mg/ml BSA as a stabilizer and 0.09% Sodium Azide as a preservative Label: FITC State: Liquid purified Ig fraction.
Concentration:	0.1 mg/ml
Purification:	Affinity Chromatography.
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: Six months 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-TR 3, ER-TR 2, ER-TR 1) 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

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

Distribution of ER-TR 1, ER-TR 2 and ER-TR 3 among mouse strains with independent and recombinant haplotypes*