

Product datasheet for **BM4092**

MHC Class I H-2 Dd, H-2(k,q,s) Rat Monoclonal Antibody [Clone ID: ER-MP42]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ER-MP42
Applications:	FC, IHC
Recommended Dilution:	Immunohistology on frozen sections (1:200; Acetone, Formaldehyde, Glutaraldehyde are suitable fixatives). Does not react on routinely processed paraffin sections. FACS (1:50 - 1:100).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse macrophage precursor cells
Specificity:	Monoclonal antibody ER-MP42 detects murine MHC class I molecules on the surface of cells of the following haplotypes: H-2Fv, H-2Dd, H-2k,q,s. A weaker reactivity is found in mouse strains with the following haplotypes: H-2p,r,w7,w22. MHC class I molecules of other haplotypes are not recognized by ER-MP42.
Formulation:	PBS, pH 7.2, 10 mg/ml BSA as a stabilizer and 0.01% thimerosal as a preservative State: Purified State: Lyophilized affinity purified IgG fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.2 mg/ml (after reconstitution)
Conjugation:	Unconjugated
Note:	MHC class I antigens are heterodimers consisting of one α chain (44kDa) with β 2-microglobulin (11.5 kDa). The epitope recognized by ER-MP42 is resistant to 0.05% glutaraldehyde, 1% paraformaldehyde and acetone.



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Product images:

ER-MP42 and ER-HR52 anti H-2 monoclonal antibody reactivity

Mouse Strain	Haplotype	Alleles at H-2 loci				ER-MP42 binding	ER-HR52 binding
		K	I-L	I-E	D		
Balb/c	d	d	d	d	d	++	++
DBA/2	d	d	d	d	d	++	++
C3H/Law	k	k	k	k	k	++	-
CBA	b	b	b	b	b	-	++
C57Bl/6	b	b	b	b	b	-	++
B10	b	b	b	b	b	-	++
B10.D2	d	d	d	d	d	++	+++
B10.M	f	f	f	f	f	-	±
B10.BR	k	k	k	k	k	++	-
B10.Y	p	p	p	p	p	±	++
B10.Q	q	q	q	q	q	++	++
B10.RIII	r	r	r	r	r	±	±
B10.S	s	s	s	s	s	++	±
B10.SM	v	v	v	v	v	++	-
B10.A	a	k	k	k	d	++	+
B10.OH	o2	d	d	d	k	++	+
B10.A(4R)	h4	k	k	b	b	+	++
B10.AKM	m	k	k	k	q	++	++
B10.MBR	bg1	b	k	k	q	+	+
B10.A(5R)	5	b	b	k	d	++	+
B10.HTG	g	d	d	d	b	-	++
AKR.L	o22	b	k	k	k	+	-
A.TH	i2	s	s	s	d	++	+
CAS.1	w23	w23	w23	w23	w23	-	±
CAS.2	w17	w17	w17	w17	w3	-	±
STA.62	w27	w27	b	w27	w27	-	±
WR.7	w7	w7	w7	w7	k	±	-
WOA.105	w10	v	v	v	w10	++	-
BUA.19	w22	w16	w16	w16	k	±	-
BUA.1	w16	w16	w16	w16	w16	±	++

Antigen distribution: The antigen is expressed by all somatic cells at varying levels. Lymphocytes are highly positive whereas fibroblasts or neurons show only a low level of antigen.