

MHC I (RT1A) Recombinant Antibody | MHCI recombinant antibody

Anti-MHC I (RT1A) [OX-18], Rabbit IgG, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72457	Rabbit	Rat	Immunohistochemistry, ELISA, Immunoprecipitation, Flow Cytometry, Functional Assay

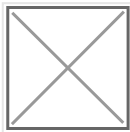
PRODUCT SYNONYMS

MHC I (RT1A); Monoclonal Recombinant Antibody; Anti-MHC I (RT1A) [OX-18]; Rabbit IgG; kappa; RT-1A; RT-1A histocompatibility antigen; non-polymorphic determinant of rat MHC class I; MHC class I; OX18; MRC OX18; MRC OX-18; MHCI recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	OX-18
Specificity	OX18 binds to a non-polymorphic/monomorphic determinant of rat MHC class I protein.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for MHCI recombinant antibody	IHC (Immunohistochemistry), ELISA, IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of fixed rat splenocytes with anti-MHCI (RT1A) antibody OX-18 (AAA72457). Immunofluorescence analysis of paraformaldehyde fixed rat splenocytes on Shifox coverslips stained with the chimeric rabbit IgG version of OX-18 (AAA72457) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane and cytoplasmic staining. The nucleus is stained with DAPI (blue). Panel shows from left to right, top-bottom AAA72457, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

WB (Western Blot)

Western Blot analysis of rat splenocytes lysates probed with anti-MHCI (RT1A) antibody OX-18 (AAA72457). The blot shows a single band at approximately 35 kDa, corresponding to the expected molecular weight of MHC class I protein. The isotype control shows no band.



FCM/FACS (Flow Cytometry)

Flow cytometry using the Anti-MHCI (RT1A) antibody OX-18 (AAA72457). Paraformaldehyde fixed rat splenocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of OX-18 (AAA72457, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACScan flow cytometer.

ADDITIONAL INFORMATION

Related Product Information for MHC I recombinant antibody	OX-18 was prepared by immunizing BALB/c mice with rat spleen glycoproteins of the size of Ia antigens which has been depleted of Ia antigens using an OX-6 affinity column.
References	Fukumoto T, McMaster WR, Williams AF Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and class I antigens in rat thymus. Eur J Immunol. 1982 Mar;12(3):237-43 N/A6178598 Note on publication: Describes the generation of the original hybridoma and the use of OX18 in analyzing RT-1A antigens on rat thymocytes

NCBI AND UNIPROT INFORMATION

NCBI GI #	2851391
NCBI GeneID	24737
UniProt Accession #	P16391; O02940; P15978
Molecular Weight	41,830 Da
NCBI Official Full Name	RT1 class I histocompatibility antigen, AA alpha chain
NCBI Official Synonym Full Names	RT1 class Ib, locus EC2
NCBI Official Symbol	RT1-EC2
NCBI Official Synonym Symbols	RTS; RT1-A; MHCRTA; RT1.AI; RT1Aw2; RT1-Aw2; RT1.EC2; RATMHCRTA
NCBI Protein Information	class I histocompatibility antigen, Non-RT1.A alpha-1 chain; MHC class I antigen; MHC class Ia protein; RT1 class Ib gene RT1Aw2; RT1 class Ib gene(Aw2); RT1 class Ib, locus Aw2
UniProt Protein Name	RT1 class I histocompatibility antigen, AA alpha chain
UniProt Entry Name	HA12_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.