

RT1-D recombinant antibody

Anti-RT1-D [OX-17], Mouse IgG1, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72480	Mouse	Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

RT1-D; Monoclonal Recombinant Antibody; Anti-RT1-D [OX-17]; Mouse IgG1; kappa; MHC class II RT1D alpha chain antigen; OX17; MRC OX-17; MRC OX17; RT1-D recombinant antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	OX-17
Specificity	The OX-17 antigenic determinant is isotypic and on the alpha chain. OX-17 labels B but not T cells from lymph node or thoracic duct lymph but very weakly labels thymocytes and does not label erythrocytes. OX-17 does not cross-react with Rat Ia-A or Mouse Ia-E antigen. The target antigen is expressed on antigen presenting cells, including B cells, macrophages and dendritic cells. RT1-D is a rat MHC class II protein. RT1-D is equivalent to mouse I-E antigen.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for RT1-D recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IP (Immunoprecipitation), WB (Western Blot)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES

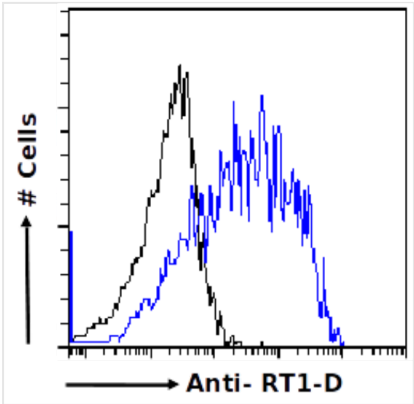


WB (Western Blot)

Western Blot using anti-RT1-D antibody OX-17 (AAA72480). Rat lymph node lysate (35 µg protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit IgG version of OX-17 (AAA72480) at 2 µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 h was used and protein was detected by chemiluminescence. The expected running size for RT1-D is 30.2 kDa.

IF (Immunofluorescence)

Immunofluorescence staining of fixed rat splenocytes with anti-RT1-D antibody OX-17 (AAA72480). Immunofluorescence analysis of paraformaldehyde-fixed rat splenocytes stained with anti-RT1-D antibody OX-17 (AAA72480) at 10 µg/ml for 1 h followed by Alexa Fluor 488-labeled anti-rabbit IgG secondary antibody. Left, top-bottom: AAA72480, DAPI, merged channels. Right, top-bottom: AAA72480, DAPI, merged channels. Unknown specificity antibody followed by Alexa Fluor 488-labeled anti-rabbit IgG secondary antibody.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-RT1-D antibody OX-17 (AAA72480). Rat splenocytes were fixed using 2% PFA, permeabilised using 0.5% Triton and stained with unimmunized rabbit IgG antibody (MOPC-21; isotype control, black line) or the rabbit IgG-chimeric version of OX-17 (AAA72480, blue line) at a dilution of 1:100 for 1 h at RT. After washing, 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 FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for RT1-D recombinant antibody	OX-17 was generated using BALB/c mice raised against rat spleen glycoproteins depleted of the Ia-A antigen using an OX-6 immunoaffinity column.
References	Fukumoto et al 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 12:237-43 19826456222 N/A6178598 Note on publication: Describes the generation and use of OX-17 to identify and purify novel Ia antigens..

NCBI AND UNIPROT INFORMATION

UniProt Accession #	O98172
---------------------	--------

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.