

RT1-D recombinant antibody

Anti-RT1-D [OX-17], Rabbit IgG, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72481	Rabbit	Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunoprecipitation, Western Blot

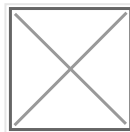
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Monoclonal
Isotype	Rabbit IgG 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)
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

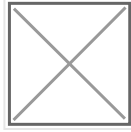


WB (Western Blot)

Western Blot using anti-RT1-D antibody OX-17 (AAA72481). 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 (AAA72481) 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 (AAA72481). Immunofluorescence analysis of para-17 (AAA72481) at 10 µg/ml for 1 h followed by Alexa Fluor 488 (green) and DAPI (blue) staining. Merged channels show right, top-bottom AAA72481, DAPI, merged channels. A control of unknown specificity antibody followed by Alexa Fluor 488 (green) and DAPI (blue) staining is shown in the bottom right panel.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-RT1-D antibody OX-17 (AAA72481). 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 (AAA72481, blue line) at a dilution of 1:100 for 1 hour 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 FACScan 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 1982 6456222 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
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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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rt1-d-recombinant-antibody-clone-ox-17-flow-cytometry-immunofluorescence-immunoprecipitation-western-blot-elisa/72481>