

CD2 recombinant antibody

Anti-CD2 [OX-34], Rabbit IgG, kappa

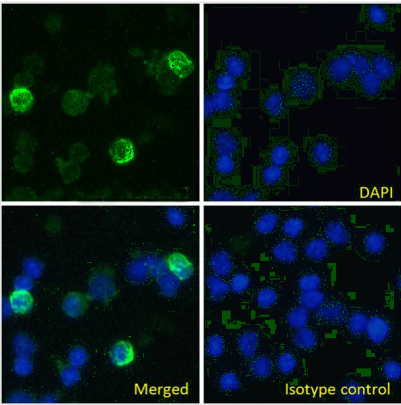
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72459	Rabbit	Rat	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD2; Monoclonal Recombinant Antibody; Anti-CD2 [OX-34]; Rabbit IgG; kappa; LFA-2; LFA2; OX-34 antigen; OX34 antigen; T-cell surface antigen T11/Leu5; T cell surface antigen T11/Leu5; OX34; MRC OX34; MRC OX-34; CD2 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	OX-34
Specificity	OX-34 binds specifically to rat CD2. CD2 is type I membrane protein involved in triggering of T-cells (cytoplasmic domain is involved in signaling function) and is expressed on thymocytes, peripheral T cells, dendritic epidermal T cells, macrophages in the spleen, and NK cells.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for CD2 recombinant antibody	FCM/FACS (Flow Cytometry), Blocking
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a 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.



IF (Immunofluorescence)
Immunofluorescence staining of fixed rat splenocytes with anti-CD2 (T-cell surface antigen) antibody OX-34 (AAA72459). Immunofluorescence analysis of paraformaldehyde-fixed rat (*Rattus norvegicus*) splenocytes on Shifox coverslips, permeabilized with 0.15% Triton, stained with the chimeric rabbit version of OX-34 (AAA72459) at 1.0 µg/ml for 1 h followed by AlexaFluor 488 secondary antibody (1 µg/ml), showing membrane and cytoplasmic staining of a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72459, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by AlexaFluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD2 recombinant antibody	OX-34 was prepared by immunizing mice with T blasts prepared in mixed lymphocyte reactions with purified rat T helper cells against irradiated spleen.
References	Arvieux et al. Monoclonal antibodies against a rat leucocyte antigen block antigen-induced T-cell responses via an effect on accessory cells. Immunology 58:337-1986 N/A2942461 Note on publication: Describes the use of OX-45 in blocking the primary mixed lymphocyte response (MLR) and the secondary response of T lymphocytes to the soluble antigen DNP-BGG. It also showed that OX-45 did not have any effect on the cytotoxic activity of specific (CTL) or non-specific (NK) killer cells or on proliferative responses stimulated by lectins or oxidative mitogenesis.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978627
NCBI GeneID	497761
NCBI Accession #	NP_036962.1
NCBI GenBank Nucleotide #	NM_012830.1
UniProt Accession #	P08921
Molecular Weight	38,414 Da
NCBI Official Full Name	T-cell surface antigen CD2
NCBI Official Synonym Full Names	Cd2 molecule
NCBI Official Symbol	Cd2
NCBI Official Synonym Symbols	CD2R; LFA2; OX34; LFA-2; OX-34
NCBI Protein Information	T-cell surface antigen CD2; CD2 antigen; OX-34 antigen; LFA-3 receptor; T-cell surface antigen T11/Leu-5; OX-45 surface antigen homolog to human T lymphocyte CD2 antigen
UniProt Protein Name	T-cell surface antigen CD2
UniProt Gene Name	Cd2
UniProt Entry Name	CD2_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd2-recombinant-antibody-clone-ox-34-flow-cytometry-elisa/72459>