

Rabbit anti-Mouse, Rat Cd2 Polyclonal Antibody | anti-Cd2 antibody

Anti-Cd2 Antibody

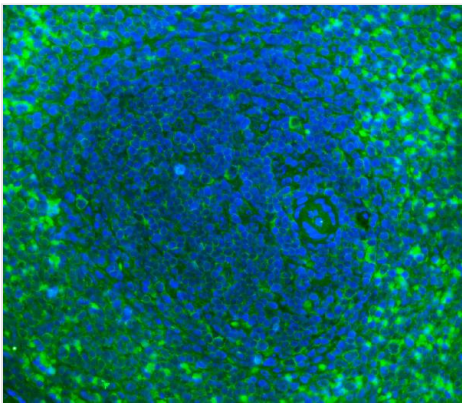
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125561	Rabbit	Mouse, Rat	ELISA, Immunohistochemistry

PRODUCT SYNONYMS

Cd2; Polyclonal Antibody; Anti-Cd2 Antibody; T-cell surface antigen CD2; LFA-2; LFA-3 receptor; OX-34 antigen; T-cell surface antigen T11/Leu-5; CD antigen CD2; Cd2 molecule; anti-Cd2 antibody

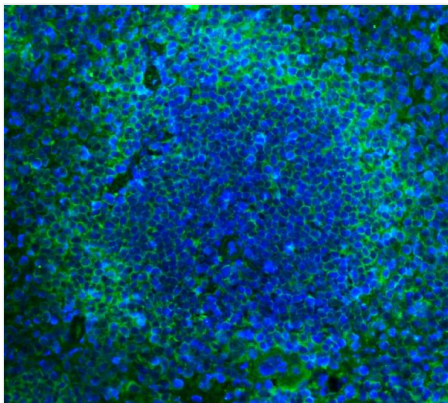
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Cd2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Cd2 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry)
Immunogen	E Coli-derived rat Cd2 recombinant protein (Position: H34-K330).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



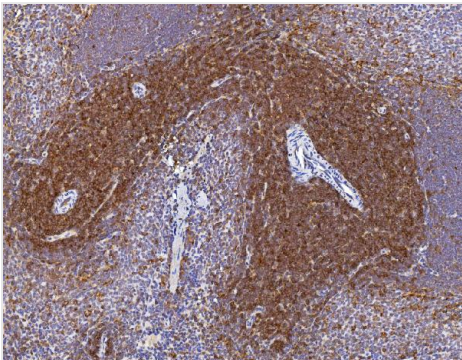
IF (Immunofluorescence)

Figure 4. IF analysis of Cd2 using anti-Cd2 antibody (AAA125561).Cd2 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5μg/mL rabbit anti-Cd2 Antibody (AAA125561) overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight®488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



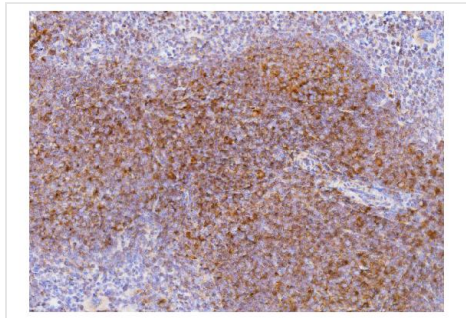
IF (Immunofluorescence)

Figure 3. IF analysis of Cd2 using anti-Cd2 antibody (AAA125561).Cd2 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5μg/mL rabbit anti-Cd2 Antibody (AAA125561) overnight at 4 degree C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight®488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Cd2 using anti-Cd2 antibody (AAA125561).Cd2 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/mL rabbit anti-Cd2 Antibody (AAA125561) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of Cd2 using anti-Cd2 antibody (AAA125561).Cd2 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/mL rabbit anti-Cd2 Antibody (AAA125561) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-Cd2 antibody

CD2 (cluster of differentiation 2) is a cell adhesion molecule found on the surface of T cells and natural killer (NK) cells. It has also been called T-cell surface antigen T11/Leu-5, LFA-2, LFA-3 receptor, erythrocyte receptor and rosette receptor. Monoclonal antibodies directed against CD2 inhibit the formation of rosettes with sheep erythrocytes, indicating that CD2 is the erythrocyte receptor or is closely associated with it. CD2 is one of the earliest T-cell markers, being present on more than 95% of thymocytes. Due to its structural characteristics, CD2 is a member of the immunoglobulin superfamily; it possesses two immunoglobulin-like domains in its extracellular portion. The localization of CD2 to 1p13 is established by in situ hybridization. CD2 interacts with other adhesion molecules, such as lymphocyte function-associated antigen-3 (LFA-3/CD58) in humans, or CD48 in rodents, which are expressed on the surfaces of other cells. With the use of transgenic mice, such an LCR is identified within the 3-prime flanking region of the human CD2 gene.

References	1. Brown, M. H., Gorman, P. A., Sewell, W. A., Spurr, N. K., Sheer, D., Crumpton, M. J. The gene coding for the human T-lymphocyte CD2 antigen is located on chromosome 1p. Hum. Genet. 76: 191-195, 1987. 2. Clayton, L. K., Ramachandran, H., Pravtcheva, D., Chen, Y. -F., Diamond, D. J., Ruddle, F. H., Reinherz, E. L. The gene for T11 (CD2) maps to chromosome 1 in humans and to chromosome 3 in mice. J. Immun. 140: 3617-3621, 1988. 3. Kingsmore, S. F., Watson, M. L., Moseley, W. S., Seldin, M. F. Physical linkage of genes encoding the lymphocyte adhesion molecules CD2 and its ligand LFA-3. Immunogenetics 30: 123-125, 1989.
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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.