

Anti-CD2 Picoband Antibody
Catalog # ABO12614**Specification**

Anti-CD2 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	P08920
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for T-cell surface antigen CD2(CD2) detection. Tested with WB, IHC-P in Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CD2 Picoband Antibody - Additional Information

Gene ID 12481

Other Names

T-cell surface antigen CD2, LFA-2, LFA-3 receptor, Lymphocyte antigen 37, Ly-37, T-cell surface antigen T11/Leu-5, CD2, Cd2, Ly-37

Calculated MW

38415 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Mouse

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Protein Name

T-cell surface antigen CD2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E. coli-derived mouse CD2 recombinant protein (Position: R23-S203). Mouse CD2 shares 49.7% and 73.3% amino acid (aa) sequence identity with human and rat CD2, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-CD2 Picoband Antibody - Protein Information

Name Cd2

Synonyms Ly-37

Function

CD2 interacts with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain is implicated in the signaling function.

Cellular Location

Cell membrane; Single-pass type I membrane protein

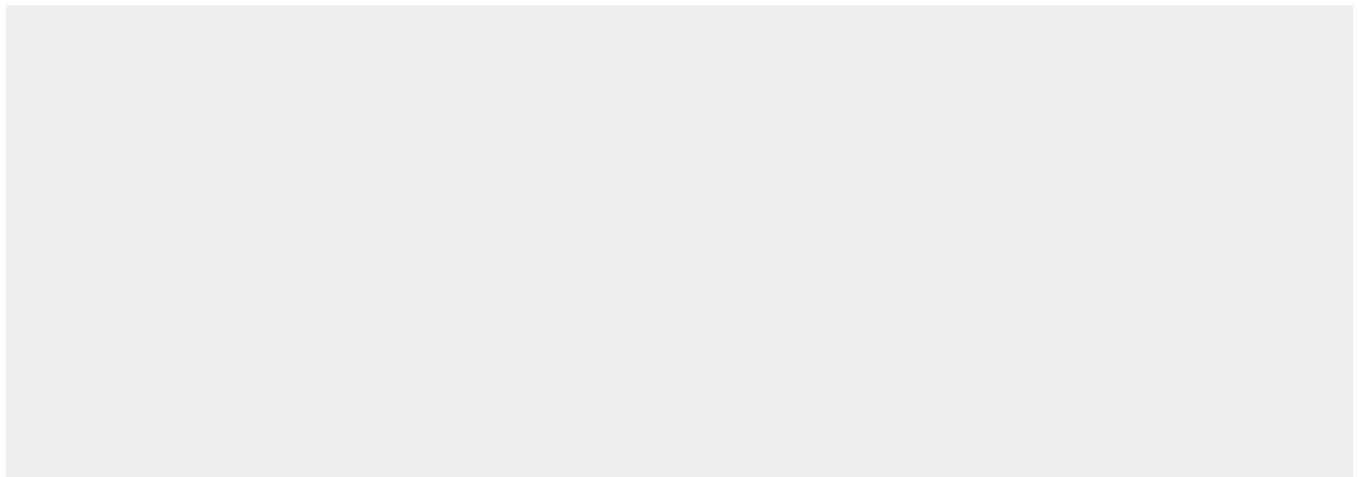
Tissue Location

Detected in thymus and spleen.

Anti-CD2 Picoband Antibody - Protocols

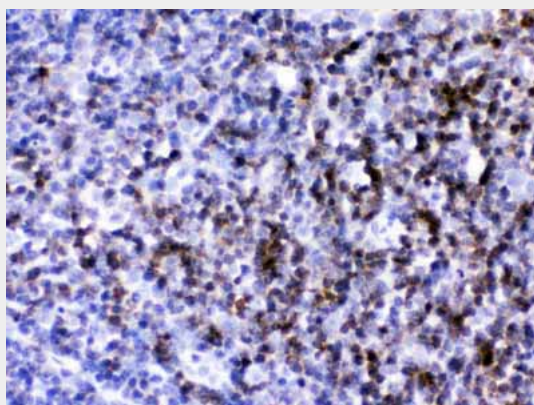
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CD2 Picoband Antibody - Images



Western blot analysis of CD2 expression in mouse cardiac muscle extract (lane 1) and HEPA whole cell lysates (lane 2). CD2 at 58KD was detected using rabbit anti- CD2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12614) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



CD2 was detected in paraffin-embedded sections of mouse lymphaden tissues using rabbit anti-CD2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12614) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-CD2 Picoband Antibody - Background

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.