

# CD2 Polyclonal antibody

Catalog Number: 23973-1-AP

## Basic Information

**Catalog Number:**

23973-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG21122

**GenBank Accession Number:**

BC033583

**GeneID (NCBI):**

914

**ENSEMBL Gene ID:**

ENSG00000116824

**UNIPROT ID:**

P06729

**Full Name:**

CD2 molecule

**Calculated MW:**

351 aa, 39 kDa

**Observed MW:**

55 kDa

**Purification Method:**

Antigen Affinity purified

**Recommended Dilutions:**

WB 1:1000-1:6000

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, WB, ELISA

**Species Specificity:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : Jurkat cells,

IHC : human tonsillitis tissue,

IF : Jurkat cells,

## Background Information

CD2 is a cell surface glycoprotein present on a majority of thymocytes, all mature T cells and subset of NK cells but not on B lymphocytes. It is a pan T-cell marker. CD2 interacts with lymphocyte function-associated antigen (LFA-3/CD58) 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.

## Storage

**Storage:**

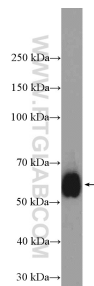
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

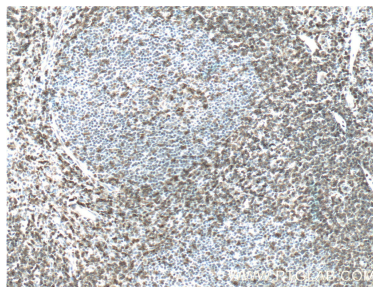
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

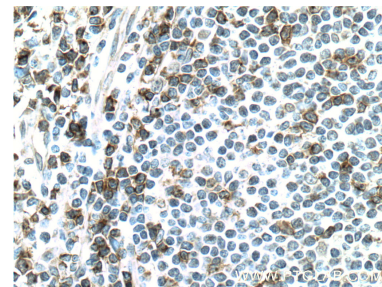
## Selected Validation Data



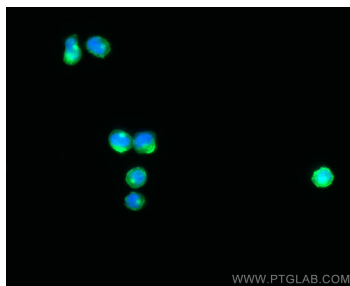
Jurkat cells were subjected to SDS PAGE followed by western blot with 23973-1-AP (CD2 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



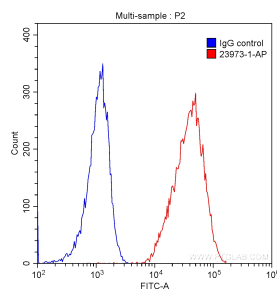
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 23973-1-AP (CD2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer, pH9.0.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 23973-1-AP (CD2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer, pH9.0.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using 23973-1-AP (CD2 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> Jurkat cells were stained with 0.20 ug Anti-Human CD2 (23973-1-AP) (red) or 0.20 ug isotype control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000. Cells were fixed with 90% MeOH.