

# CD2 Polyclonal antibody

Catalog Number: 10299-1-AP

## Basic Information

<b>Catalog Number:</b> 10299-1-AP	<b>GenBank Accession Number:</b> BC033583	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 µg/ml	<b>GeneID (NCBI):</b> 914	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000116824	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P06729	
<b>Immunogen Catalog Number:</b> AG0423	<b>Full Name:</b> CD2 molecule	
	<b>Calculated MW:</b> 351 aa, 39 kDa	
	<b>Observed MW:</b> 45-50 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, IHC : human tonsillitis tissue,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

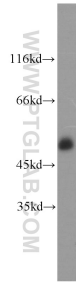
## Background Information

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.

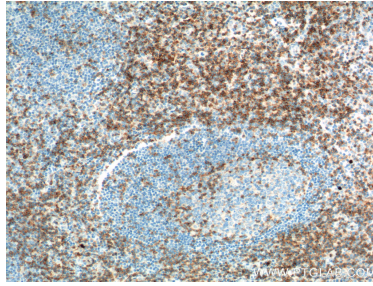
## Storage

**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

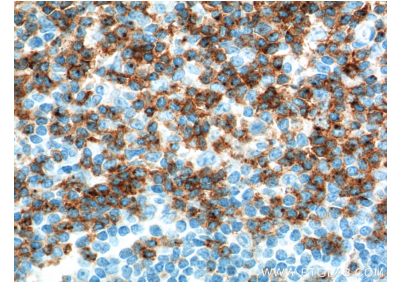
## Selected Validation Data



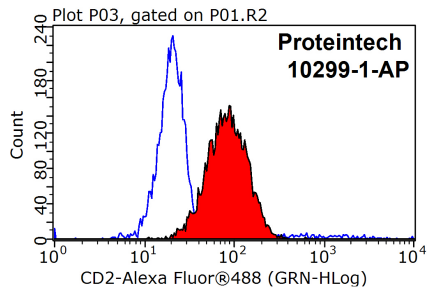
Jurkat cells were subjected to SDS PAGE followed by western blot with 10299-1-AP (CD2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10299-1-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 10299-1-AP (CD2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer, pH9.0.



1X10<sup>6</sup> Jurkat cells were stained with 0.2ug CD2 antibody (10299-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.