

For Research Use Only

# CD99 Recombinant antibody

Catalog Number: 84580-4-RR



## Basic Information

<b>Catalog Number:</b> 84580-4-RR	<b>GenBank Accession Number:</b> BC021620	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4267	<b>CloneNo.:</b> 241737H1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P14209	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> CD99 molecule	
	<b>Calculated MW:</b> 19 kDa, 16 kDa, 17 kDa	
	<b>Observed MW:</b> 28 kDa, 32 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, 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 :** THP-1 cells, Jurkat cells, HUVEC cells, U-937 cells, U-251 cells, MOLT-4 cells, human testis tissue

**IHC :** human tonsillitis tissue,

**IF/ICC :** Jurkat cells,

## Background Information

CD99, also known as MIC2, is a heavily O-glycosylated transmembrane protein involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 is broadly distributed on many cell types, with particularly strong expression on human cortical thymocytes, Ewing's sarcoma cells and peripheral primitive neuroectodermal tumors (PMID: 9794396; 16984917). In normal cells, CD99 has been functionally implicated in cell adhesion, migration, apoptosis, differentiation, activation, and proliferation of lymphocytes and monocyte extravasation and transport of several transmembrane proteins (PMID: 16984917).

## 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

For technical support and original validation data for this product please contact:

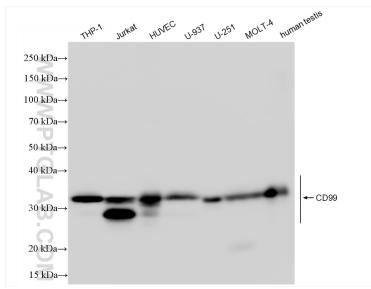
T: 4006900926

E: Proteintech-CN@ptglab.com

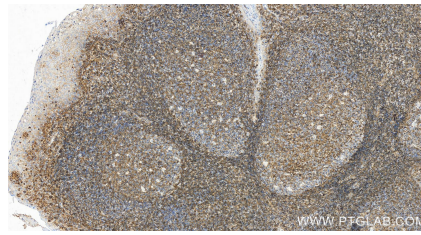
W: ptgcn.com

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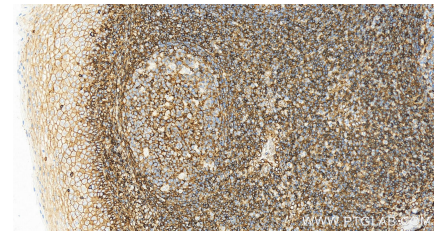
## Selected Validation Data



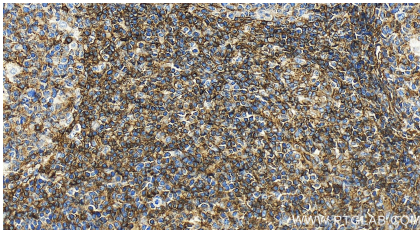
Various lysates were subjected to SDS PAGE followed by western blot with 84580-4-RR (CD99 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



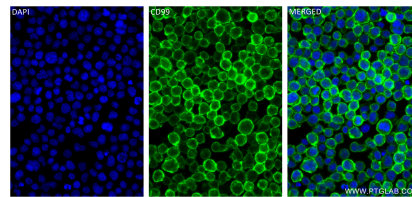
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84580-4-RR (CD99 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD99 antibody (84580-4-RR, Clone: 241737H1) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).