

For Research Use Only

# CD82 Recombinant antibody

Catalog Number: 84617-7-RR



## Basic Information

<b>Catalog Number:</b> 84617-7-RR	<b>GenBank Accession Number:</b> NM_002231.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3732	<b>CloneNo.:</b> 241765G7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27701-1	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> CD82 molecule	
	<b>Calculated MW:</b> 30 kDa	
	<b>Observed MW:</b> 35-45 kDa	

## Applications

**Tested Applications:**  
WB, IHC, 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, Raji cells, U-87 MG cells

**IHC :** human tonsillitis tissue, human ovary cancer  
tissue

## Background Information

CD82 is a membrane glycoprotein and belongs to the tetraspanin superfamily, many of which are implicated in the regulation of cell motility, morphology, fusion, signaling, fertilization, and differentiation. CD82 was originally identified as a suppressor of metastasis located on human chromosome 11p11.2 in prostate carcinoma. The majority of evidence indicates that CD82 expression is downregulated or abolished in a variety of malignant tumors. CD82 is present at high levels in human monocyte and macrophage lineages and in various epithelial cells in the prostate, lung, pancreas and many other tissues. In epithelial cells, CD82 is implicated in diverse biological processes such as cell adhesion, migration, apoptosis and morphogenesis.

## 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**

**\*\*\* 20ul sizes contain 0.1% BSA**

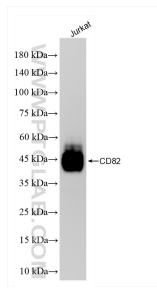
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

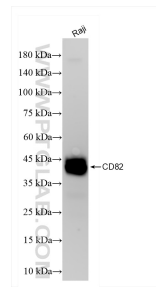
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
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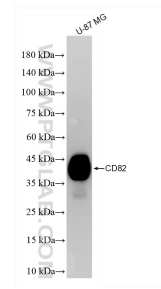
## Selected Validation Data



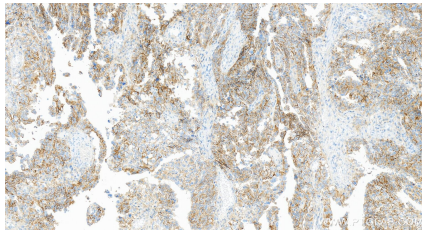
Jurkat cells were subjected to SDS PAGE followed by western blot with 84617-7-RR (CD82 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



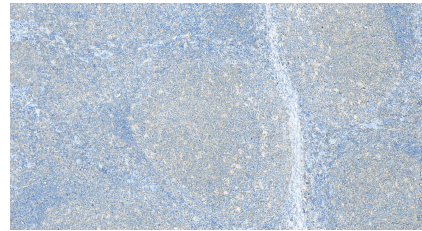
Raji cells were subjected to SDS PAGE followed by western blot with 84617-7-RR (CD82 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



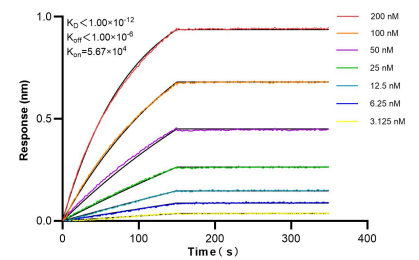
U-87 MG cells were subjected to SDS PAGE followed by western blot with 84617-7-RR (CD82 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 84617-7-RR (CD82 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84617-7-RR (CD82 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 84617-7-RR against Human CD82 were performed. The affinity constant is below 1 pM.