

For Research Use Only

# CD82 Monoclonal antibody

Catalog Number: 66803-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 66803-1-Ig	<b>GenBank Accession Number:</b> BC000726	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3732	<b>CloneNo.:</b> 1E7A4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P27701	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:1000-1:4000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> CD82 molecule	
<b>Immunogen Catalog Number:</b> AG17513	<b>Calculated MW:</b> 30 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse

**Cited Species:**  
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 :** MCF-7 cells, Jurkat cells, Raji cells, K-562 cells, RAW 264.7 cells

**IHC :** human tonsillitis tissue,

**IF-P :** human tonsillitis tissue, human ovary tumor 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lifei Yang	35728771	J Proteomics	IHC
Guangning You	38765115	Heliyon	WB,IF
Jinghao Suo	37953466	FEBS Open Bio	WB

## 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**

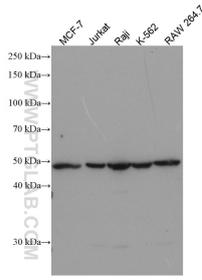
For technical support and original validation data for this product please contact:

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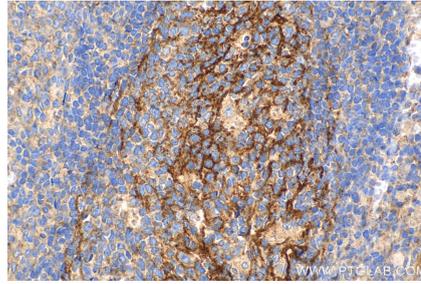
E: proteintech@ptglab.com  
W: ptglab.com

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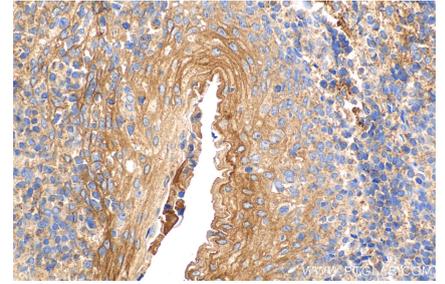
## Selected Validation Data



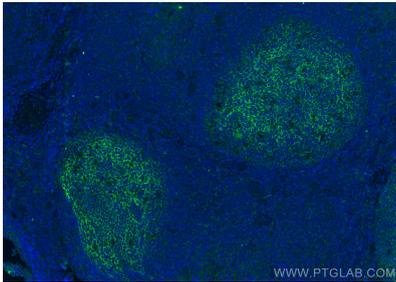
Various lysates were subjected to SDS PAGE followed by western blot with 66803-1-Ig (CD82 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66803-1-Ig (CD82 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66803-1-Ig (CD82 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using CD82 antibody (66803-1-Ig, Clone: 1E7A4) at dilution of 1:400 and Coralite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).