

For Research Use Only

# CD100 Monoclonal antibody, PBS Only



Catalog Number: 66582-1-PBS

Featured Product

## Basic Information

**Catalog Number:**

66582-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG26461

**GenBank Accession Number:**

BC054500

**GeneID (NCBI):**

10507

**UNIPROT ID:**

Q92854

**Full Name:**

sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D

**Calculated MW:**

96 kDa

**Observed MW:**

150 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1C1A6

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

Human

## Background Information

CD100 (also known as SEMA4D), a 150 kDa homodimer, belongs to the family of immune semaphorins, and CD100 is abundantly expressed on resting T cells, NK cells, and antigen-presenting cells. As a transmembrane glycoprotein, it is digested to its soluble form, sCD100, by specific matrix metalloproteinases. CD100 has been reported that the expression levels of CD100, and one of its receptors, plexin-B1 (PLXNB1), are increased in head and neck, prostate, colon, breast, and lung cancers, and the interaction between them provides oncogenic signaling essential for tumor growth and metastasis.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

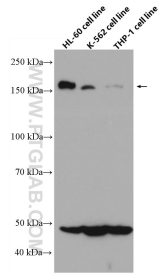
For technical support and original validation data for this product please contact:

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

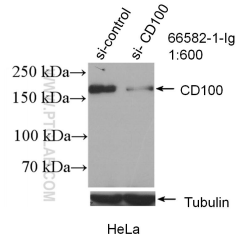
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

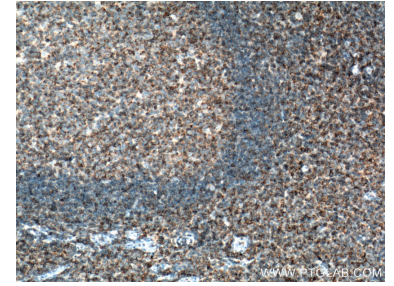
## Selected Validation Data



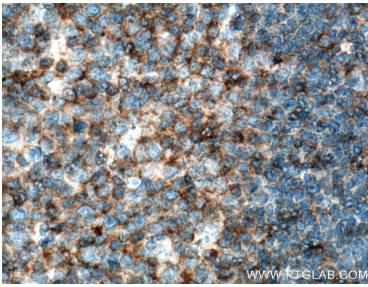
various cells were subjected to SDS PAGE followed by western blot with 66582-1-Ig (CD100 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66582-1-PBS in a different storage buffer formulation.



WB result of CD100 antibody (66582-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD100 transfected HeLa cells. This data was developed using the same antibody clone with 66582-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66582-1-Ig (CD100 antibody) at dilution of 1:450 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66582-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66582-1-Ig (CD100 antibody) at dilution of 1:450 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66582-1-PBS in a different storage buffer formulation.