

For Research Use Only

# CD100 Monoclonal antibody

Catalog Number: 66582-1-Ig

Featured Product

1 Publications



## Basic Information

**Catalog Number:**

66582-1-Ig

**Size:**

1300 µg/ml

**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

**Recommended Dilutions:**

WB 1:1000-1:3000

IHC 1:225-1:900

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human

**Cited Species:**

human

**Positive Controls:**

WB : HL-60 cells, HeLa cells, K-562 cells, THP-1 cells

IHC : human tonsillitis tissue, human kidney tissue, human lymphoma tissue, human appendicitis tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiang Liu	36936030	Oncol Lett	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

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

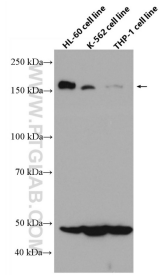
T: 4006900926

E: Proteintech-CN@ptglab.com

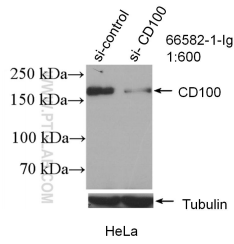
W: ptgcn.com

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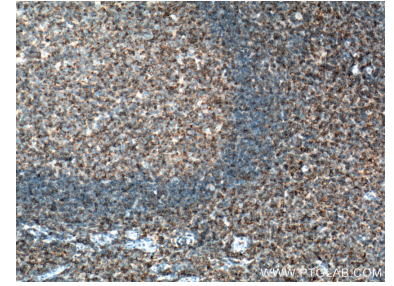
## Selected Validation Data



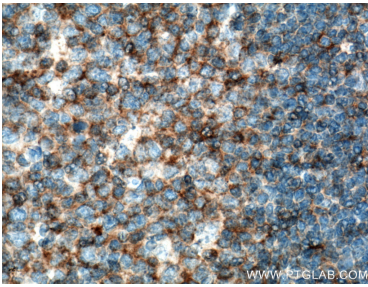
various cells were subjected to SDS PAGE followed by western blot with 66582-1-Ig (CD100 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.



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).



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).