

For Research Use Only

CD100 Monoclonal antibody

Catalog Number: 66582-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

66582-1-Ig

Size:

150ul, Concentration: 1300 ug/ml by
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

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 G purification

CloneNo.:

1C1A6

Recommended Dilutions:

WB 1:1000-1:3000

IHC 1:225-1:900

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human

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

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

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

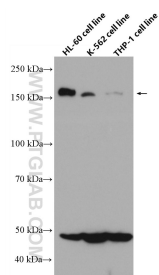
For technical support and original validation data for this product please contact:

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

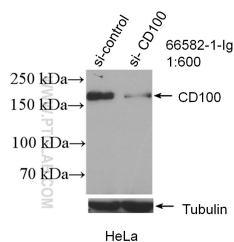
E: proteintech@ptglab.com
W: ptglab.com

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other manufacturer.

Selected Validation Data



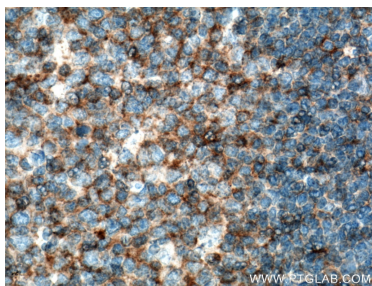
various cells were subjected to SDS PAGE followed by western blot with 66582-1-Ig (CD100 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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)).