

# CD100 Polyclonal antibody

Catalog Number: 14422-1-AP

Featured Product

3 Publications

## Basic Information

**Catalog Number:**

14422-1-AP

**Size:**

150ul, Concentration: 133 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5769

**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

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human

**Cited Species:**

mouse

**Positive Controls:**

IHC : human oesophagus cancer 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 metastasis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Y Zhang	25252878	J Dent Res	IHC
Yufeng Zhang	27254469	Sci Rep	
Yufeng Zhang	25088728	J Bone Miner Res	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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