

For Research Use Only

CD100 Polyclonal antibody

Catalog Number: 14422-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 14422-1-AP	GenBank Accession Number: BC054500	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10507	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	Full Name: sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	
Isotype: IgG	Calculated MW: 96 kDa	
Immunogen Catalog Number: AG5769		

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : human oesophagus cancer tissue,
Cited Applications: IHC, WB	
Species Specificity: human	
Cited Species: mouse	

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:
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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Selected Validation Data