

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66582-1-Ig	<b>GenBank-Zugangsnummer:</b> BC054500	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul , Konzentration: 1300 µg/ml von10507 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 10507	<b>CloneNo.:</b> 1C1A6
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:3000 IHC 1:225-1:900
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 96 kDa	
<b>Immunogen Katalognummer:</b> AG26461	<b>Beobachtete Masse:</b> 150 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IHC, WB, ELISA	<b>Positivkontrollen:</b> WB : HL-60-Zellen, HeLa-Zellen, K-562-Zellen, THP-1-Zellen IHC : humanes Tonsillitisgewebe, humanes Appendizitis-Gewebe, humanes Lymphomgewebe, humanes Nierengewebe
<b>In Publikationen genannte Anwendungen:</b> WB	
<b>Getestete Reaktivität:</b> Human	
<b>Zitierte Arten:</b> Human	
<b>Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

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.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Xiang Liu	36936030	Oncol Lett	WB

## Lagerung

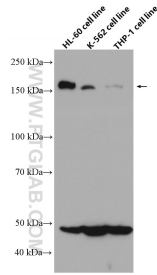
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

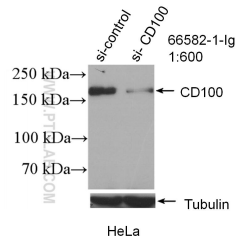
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

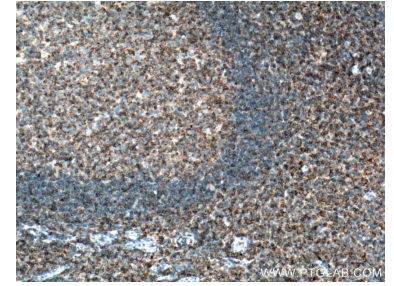
## Ausgewählte Validierungsdaten



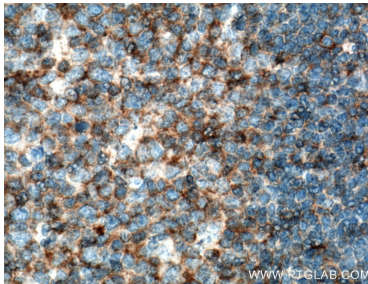
various cells were subjected to SDS PAGE followed by western blot with 66582-1-Ig (CD100 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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)).