Anti-CD100 Antibody [5H6E3]

EM1710-47

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, FC
Molecular Wt:	96.2kDa
Clone number:	5H6E3

Description: SEMA4D (Semaphorin 4D) is a Protein Coding gene. Diseases associated with SEMA4D include Hemorrhagic Fever With Renal Syndrome. Among its related pathways are Guidance Cues and Growth Cone Motility and Developmental Biology. GO annotations related to this gene include receptor binding and transmembrane signaling receptor activity. An important paralog of this gene is SEMA4B.

Immunogen: Purified recombinant fragment of human CD100 (AA: extra 590-734) expressed in E. Coli.

Positive control: K562 cells 、Ramos cells 、cervical cancer tissues 、bladder cancer tissues

Subcellular location: Membrane.

Database links: SwissProt: Q92854 Human

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:50-1:200
FC	1:100-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4℃; -20℃ for long term storage.

Purity: Protein G affinity purified.

Images

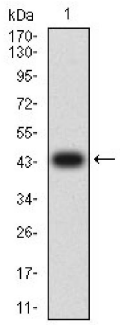

Fig1: Western blot analysis of CD100 against human CD100 (AA: extra 590-734) recombinant protein. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-47, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.

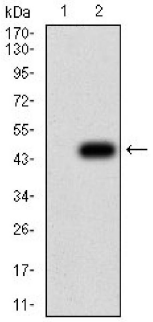

Fig2: Western blot analysis of CD100 against HEK293 (1) and CD100 (AA: extra 590-734)-hIgGFc transfected HEK293 (2) cell lysate. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-47, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.

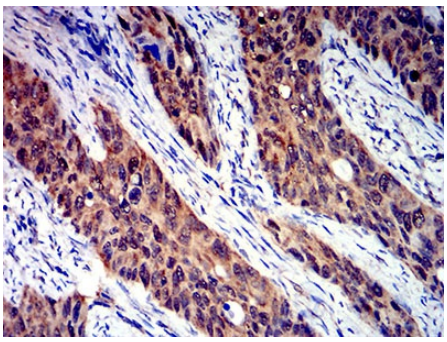

Fig3: Immunohistochemical analysis of paraffin-embedded cervical cancer tissue using anti-CD100 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (EM1710-47, 1/100) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

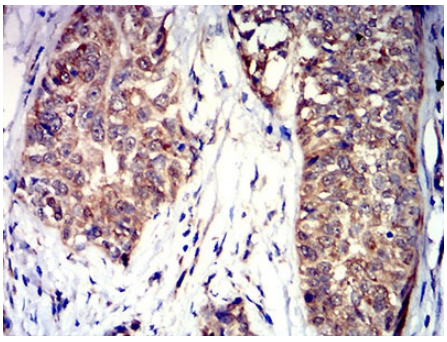

Fig4: Immunohistochemical analysis of paraffin-embedded bladder cancer tissue using anti-CD100 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (EM1710-47, 1/100) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

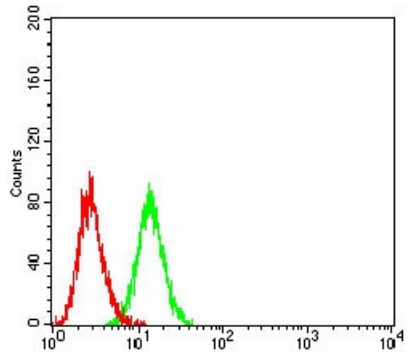

Fig5: Flow cytometric analysis of CD100 was done on Ramos cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1710-47, 1/100) (green). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated goat anti-Mouse IgG Secondary antibody at 1/500 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; red).

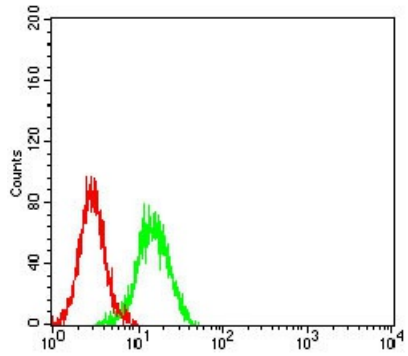

Fig6: Flow cytometric analysis of CD100 was done on K562 cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1710-47, 1/100) (green). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated goat anti-Mouse IgG Secondary antibody at 1/500 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; red).

Background References

1. PLoS One. 2016 Feb 24;11(2):e0150151.
2. Microvasc Res. 2014 May;93:1-8.