

# Semaphorid 4D/CD100 Monoclonal Antibody(Detector)

catalog number: AN001640P



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

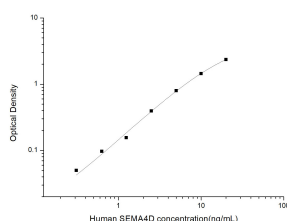
|                     |  |
|---------------------|--|
| <b>Reactivity</b>   | Human  |
| <b>Immunogen</b>    | Recombinant Human Semaphorid 4D/CD100 D protein expressed by Mammalian |
| <b>Host</b>         | Rat  |
| <b>Isotype</b>      | Rat IgG1   |
| <b>Clone</b>        | 2D10   |
| <b>Purification</b> | Protein A/G Purification   |
| <b>Conjugation</b>  | Unconjugated   |
| <b>buffer</b>       | Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.     |

## Applications

## Recommended Dilution

|                       |               |
|-----------------------|---------------|
| <b>ELISA Detector</b> | 0.1-0.4 µg/mL |
|-----------------------|---------------|

## Data



Sandwich ELISA-Recombinant Human Semaphorin 4D/CD100 D protein standard curve. Background subtracted standard curve using Semaphorin 4D/CD100 antibody(AN000450P)(Capture), Semaphorin 4D/CD100 antibody(AN001640P)(Detector) in sandwich ELISA. The reference range value for Recombinant Human Semaphorin 4D/CD100 D protein is 0.31~20 ng/mL.

## Preparation & Storage

|                 |  |
|-----------------|--|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.       |
| <b>Shipping</b> | The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended. |

## Background

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.

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Tel: 400-999-2100

Email: [techsupport@elabscience.cn](mailto:techsupport@elabscience.cn)

Web: [www.elabscience.cn](http://www.elabscience.cn)

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