

## Proprotein Convertase 9/PCSK9 Monoclonal Antibody(Capture)

catalog number: AN001270P

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

### Description

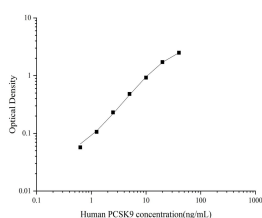
|                     |  |
|---------------------|--|
| <b>Reactivity</b>   | Human  |
| <b>Immunogen</b>    | Recombinant Human Proprotein Convertase 9/PCSK9 protein expressed by Mammalian |
| <b>Host</b>         | Mouse  |
| <b>Isotype</b>      | Mouse IgG1   |
| <b>Clone</b>        | 12C6   |
| <b>Purification</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 Capture</b> | 2-8 µg/mL |
|----------------------|-----------|

### Data



Sandwich ELISA-Recombinant Human Proprotein Convertase 9/PCSK9 protein standard curve. Background subtracted standard curve using Proprotein Convertase 9/PCSK9 antibody(AN001270P)(Capture), Proprotein Convertase 9/PCSK9 antibody(AN001280P)(Detector) in sandwich ELISA. The reference range value for Recombinant Human Proprotein Convertase 9/PCSK9 protein is 0.625-400 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

### For Research Use Only

Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments. Acts via a non-proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation. Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway. Inhibits epithelial Na<sup>+</sup> channel (ENaC)-mediated Na<sup>+</sup> absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.