

## Product Information

### **MemDX™ Membrane Protein Human PCSK4 (Proprotein convertase subtilisin/kexin type 4)**

**Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX1971K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human PCSK4 membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

PCSK4

#### **Protein Length**

Full Length of Mature Protein

#### **Protein Class**

Protease

#### **TMD**

1

#### **Sequence**

SVVVPTDPWFSKQWYMNSEAQPDLILQAWSQGLSGQGIVVSVLDDGIEKDHPDLWANYDPLASYDFNDYDPDPQPRYTPSKEN

### Product Description

#### **Expression Systems**

*in vitro* E.coli expression system

#### **Tag**

10xHis tag at the N-terminus

#### **Protein Format**

Soluble

#### **Form**

Liquid or Lyophilized powder

#### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

PCSK4

#### Full Name

Proprotein convertase subtilisin/kexin type 4

#### Introduction

This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to subcellular compartments where a second autocatalytic event takes place and the catalytic activity is acquired. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. The protease is expressed only in the testis, placenta, and ovary. It plays a critical role in fertilization, fetoplacental growth, and embryonic development and processes multiple prohormones including pro-pituitary adenylate cyclase-activating protein and pro-insulin-like growth factor II.

#### Alternative Names

PCSK4; PC4; SPC5; testicular tissue protein Li 135; Proprotein convertase subtilisin/kexin type 4

#### Gene ID

[54760](#)

#### UniProt ID

[Q6UW60](#)