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Product Information

MemDX™ Membrane Protein Human MUC16 (Mucin 16, cell surface associated) Expressed in *E.coli* with 6xHis tag at the C-terminus for Antibody Discovery, Partial (12660-12923aa)

Cat. No.: **MPX4127K**
This product is for research use only and is not intended for diagnostic use.

This product is a 29.3 kDa Human MUC16 membrane protein expressed in *E.coli*. 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
MUC16

Protein Length
Partial (12660-12923aa)

Protein Class
Transporter

Molecular Weight
29.3 kDa

TMD
1

Sequence
GFTHWIPVPTSSTPGTSTVDLGSGTPSSLPSPTTAGPLLVPFTLNFTITNLKYEEDMHCPGSRKFNTTERVLQSLLGPMFKNTSVGP

Product Description

Expression Systems
E.coli

Tag
6xHis tag at the C-terminus

Protein Format
Soluble

Form

Liquid or Lyophilized powder

Purity

>85% as determined by SDS-PAGE.

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

MUC16

Full Name

Mucin 16, cell surface associated

Introduction

This gene encodes a protein that is a member of the mucin family. Mucins are high molecular weight, O-glycosylated proteins that play an important role in forming a protective mucous barrier, and are found on the apical surfaces of the epithelia. The encoded protein is a membrane-tethered mucin that contains an extracellular domain at its amino terminus, a large tandem repeat domain, and a transmembrane domain with a short cytoplasmic domain. The amino terminus is highly glycosylated, while the repeat region contains 156 amino acid repeats unit that are rich in serines, threonines, and prolines. Interspersed within the repeats are Sea urchin sperm protein Enterokinase and Agrin (SEA) modules, leucine-rich repeats and ankyrin (ANK) repeats. These regions together form the ectodomain, and there is a potential cleavage site found near an SEA module close to the transmembrane domain. This protein is thought to play a role in forming a barrier, protecting epithelial cells from pathogens. Products of this gene have been used as a marker for different cancers, with higher expression levels associated with poorer outcomes.

Alternative Names

MUC16; CA125; mucin-16; CA125 ovarian cancer antigen; cancer antigen 125; ovarian cancer-related tumor marker CA125; ovarian carcinoma antigen CA125; Mucin 16, cell surface associated

Gene ID

94025

UniProt ID

Q8WXI7

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