

Product Information

MemDX™ Membrane Protein Human MUC1 (Mucin 1, cell surface associated)

Cat. No.: **MP0140J**

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

This product is a 25.1 kDa Human MUC1 membrane protein expressed in HEK293T. 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

MUC1

Protein Length

Full-length

Protein Class

Druggable Genome, Secreted Protein, Transmembrane

Molecular Weight

25.1 kDa

TMD

1

Sequence

MTPGTQSPFFLLLLLTVL TATTAPK PATVVTGSGHASSTPGGEKETSATQRSSVPSSTEKNAFNSSLEDP
STDYYQELQRDISEMFLQIYKQGGFLGLSNIKFRPGSVVQLTLAFREGTINVHDTVETQFNQYKTEAASR
YNLTISDVSVSDVPFPFSAQSGAGVPGWGIALLLVLCVLVALAIVYLI ALAVCQCRRKNYGQLDIFPARD
TYHPMSEYPTYHTHG RYVPPSSSTRSPYEKVSAGNGGSSLSYTNPAVAATSANL

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

MUC1

Full Name

Mucin 1, cell surface associated

Introduction

This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.

Alternative Names

EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC

Gene ID

[4582](#)

UniProt ID

[P15941](#)