

Product Information

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

Cat. No.: **MPC1631K**

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

This product is a 122.1 kDa Human MUC1 membrane protein expressed in HEK293. 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

Transporter

Molecular Weight

122.1 kDa

TMD

1

Sequence

MTPGTQSPFFLLLLLTVLTVVTGSGHASSTPGGEKETSATQRSSVPSSTE
KNAVSMTSSVLSSHSPGSGSSTTQGQDVTLPATEPASGSAATWGQDVTS
VPVTRPALGSTTPPAHDVTSAPDNKPAPGSTAPPAHGVTSAPDTRPAPGS
TAPPAHGVTSAPDTRPAPGSTAPPAHGVTSAPDTRPAPGSTAPPAHGVTS
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TAPPVHNVTASGSASGSASTLVHNGTSARATTTTPASKSTPFISPSHHSD
TPTTLASHSTKTDASSTHHSSVPLTSSNHSTSPQLSTGVSFFFLSFHIS

NLQFNSSLEDPSTDYYQELQRDISEMFLQIYKQGGFLGLSNIKFRPGSVV
VQLTLAFREGTINVHDTVETQFNQYKTEAASRYNLTISDVSVSDVPFPFSA
QSGAGVPGWGIALLLVLCVLVALAIVYLIALAVCQCRRKNYGQLDIFPAR
DTYHPMSEYPTYHTHGRYVPPSSTDSPYEKVSAGNGGSSLSYTNPAVAA
TSANL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

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

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

MUC1; EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADTKD2; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC; mucin-1; H23 antigen; breast carcinoma-associated antigen DF3; cancer antigen 15-3; carcinoma-associated mucin; episialin; krebs von den Lungen-6; mucin 1, transmembrane; peanut-reactive urinary mucin; polymorphic epithelial mucin; tumor associated epithelial mucin; tumor-associated epithelial membrane antigen; Mucin 1, cell surface associated

Gene ID

[4582](#)

UniProt ID

[P15941](#)