

Product Information

MemDX™ Membrane Protein Human MUC16 (Mucin 16, cell surface associated) Full Length

Cat. No.: **MPC1918K**

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

This product is a 1519.1 kDa Human MUC16 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

MUC16

Protein Length

Full length or ECD

Protein Class

Transporter

Molecular Weight

1519.1 kDa

TMD

1

Sequence

MLKPSGLPGSSSPTRSLMTGSRSTKATPEMDSGLTGATLSPKTSTGAIVV
TEHTLPFTSPDKTLASPTSSVVGRRTQSLGVMSSALPESTSRGMTHSEQR
TSPSLSPQVNGTPSRNYPATSMVSGLSSPRTRTSSTEGNFTKEASTYTLT
VETTS GPVTEKYTVPTETSTTEGDSTETPWDTRYIPVKITSPMKTFADST
ASKENAPVSMTPAETTVTDSHTPGRTNPSFGTLYSSFLDLSPKGTNPNSRG
ETSLELILSTTGYPFSSPEPGSAGHSRISTSAPLSSSASVLDNKISETSI
FSGQSLTSPLSPGVPEARASTMPNSAIPFSMTLSNAETSAERVRSTISSL
GTPSISTKQTAETILTFHAFETMDIPSTHIAKTLASEWLGPGLGGTS
TSALTTTSPSTTLVSEETNTHHSTSGKETEGTLNMTPLETSAPGEESE
MTATLVPTLGFTTLDKIRSPSQVSSSHPTRELRTTGSTSGRQSSSTA AH
GSSDILRATTSSTSKASSWTSESTAQQFSEPQHTQWVETSPSMKTERPPA
STSVAAPITTSVPSVVSGFTTLKTSSTKGIWLEETSADTLIGESTAGPTT
HQFAVPTGISMTGGSSTRGSQGTTHLLTRATASSETSADTLATNGVPVS
VSPAVSKTAAGSSPPGGTKPSYTMVSSVIPETSSLQSSAFREGTSLGLTP
LNTRHPFSSPEPDSAGHTKISTSIPLSSASVLEDKVSATSTFSHHKATS
SITTGTPEISTKTKPSSAVLSSMTLSNAATSPERVRNATSPLTHPSPSGE
ETAGSVLTLSTAETDSPNIHPTGTLTSESSESPSTLSLPSVSGVKTTF
SSSTPSTHLFTSGEETEETSNPSVSQPETS VSRVRTTLASTSVPTPVFPT
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TNRDTFNDSAAPQSTTWPETSPRFKTLPSATTTVSTSATLSATVMVSK
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RLDTSHLPIGTTASSETSMDFTMakesSVSMVSPSQSMDAAGSSTPGRTS
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LGILSSSPSSPTPKVTMSSTFSTQRVTTSMIMDTVETSRWNMPNLPSTTS
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IHLGAHASSESPSTIKLTMAASVVKPGSYTPLTFPSIETHIHVSTARMAYS
SGSSPEMTAPGETNTGSTWDPTYITTTDPKDTSSAQVSTPHSVRTLRTT
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SEATTFWKPDSTDLTSREIETGPTNIQSTPPMDNTTGGSSSGVTLGIAHL
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NLRYEENMWPGSRKFNTTERVLQGLLRPLFKNTSVGPLYSGCRLTLLRPE
KDGEATGVDAICTHRPDPTGPGLDREQLYLELSQLTHSITELGPYTLDRD
SLYVNGFTHRSSVPTTSTGVVSEEPFTLNFTINNLRYMADMGQPGSLKFN
ITDNVMQHLLSPLFQRSSLGARYTGCRVIALRSVKNGAETRVDLLCTYLQ
PLSGPGLPIKQVFHELSQLTHGITRLGPYSLDKDSL YLNGYNEPGPDEPP
TTPKPATTFPLPPLSEATTAMGYHLKTLTNFTISNLQYSPDMGKGSATFN
STEGVLQHLLRPLFQKSSMGPFFYLGCLISLRPEKDGAATGVDTTCTYHP
DPVGPGLDIQQLYWELSQLTHGVTQLGFYVLDRDSL FINGYAPQNL SIRG

EYQINFHIVNWNLSNPDPTSSEYITLLRDIQDKVTTLYKGSQQLHDTFRFC
LVTNLTMDSVLVTVKALFSSNLDPSLVEQVFLDKTLNASFHWLGSTYQLV
DIHVTEMESSVYQPTSSSSTQHLYNFTITNLPYSQDKAQPGTTNYQRNK
RNIEDALNQLFRNSSIKSYFSDCQVSTFRSVPNRHHTGVDSL CNFSPLAR
RVDRVAIYEEFLRMTRNGTQLQNFTLDRSSVLVDGYSPNRNEPLTGNSDL
PFWAVILIGLAGLLGVITCLICGVLVTTTRRRKKEGEYNVQQQCPGYYQSH
LDLEDLQ

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 -72°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](#)