

Recombinant Human MUC16 Protein, His-tagged

Cat. No. MUC16-02H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUC16 Protein(NP_078966.2), fused to His-tag, was expressed in HEK293.
Species	Human
Source	HEK293
Description	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.
Form	PBS, pH 7.4.

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Molecular Mass	The protein has a calculated MW of 75 kDa.
AA Sequence	MEKIPVSAFLLLVALSYTLAPGSRKFNTTTERVLQGLLRPLFKNTSVGPLYSGCRLTLL RPEKDGEATGVDAICTHRPDPTGPGLDREQLYLELSQLTHSITELGPYTLDRDSLYV NGFTHRSSVPTTSTGVVSEEPFTLNFTINNLRYMADMGQPGSLKFNITDNVMQHLLS PLFQRSSLGARYTGCRVIALRSVKNGAETRVDLLCTYLQPLSGPGLPIKQVFHELSSQ QTHGITRLGPYSLDKDSLYLNGYNEPGPDEPPTTPKPATTFLPPLSEATTAMGYHLK TLTLNFTISNLQYSPDMGKGSATFNSTEGVLQHLLRPLFQKSSMGPFFYLGCQLISLR PEKDGAATGVDTTCTYHPDPVGPGLDIQQLYWELSQLTHGVTQLGFYVLDRLSLFIN GYAPQNLSIRGEYQINFHIVNWNLSNPDPSTSEYITLLRDIQDKVTTLYKGSQQLHDTF RFCLVTNLTMDSVLVTVKALFSSNLDPSLVEQVFLDKTLNASFHWLGSTYQLVDIHVT EMESSVYQPTSSSSTQHFYLNFTITNLPYSQDKAQPGTTNYQRNKRNIEDALNQLFR NSSIKSYFSDCQVSTFRSVPNRHHTGVDSL CNFSPLARRVDRVAIYEEFLRMTRNGT QLQNFTLDRSSVLVDGYSPNRNEPLTGNSDLPHHHHH
Purity	>90%, by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.1 mg/ml
GENE INFORMATION	
Gene Name	MUC16 mucin 16, cell surface associated [Homo sapiens (human)]
Official Symbol	MUC16
Synonyms	CA125
Gene ID	94025

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mRNA Refseq NM_024690.2

Protein Refseq NP_078966.2

MIM 606154

UniProt ID Q8WXI7

SDS-PAGE of
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