Recombinant Human FUT3 Protein (35-361), N-His tagged

Cat. No. FUT3-129H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FUT3 Protein (35-361) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	35-361
Description	The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Differences in the expression of this gene are associated with host susceptibility to viral infection.
Molecular Mass	39.72 kDa
AA Sequence	MGHHHHHHSGSEFRVSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTWPFHIPVA LSRCSEMVPGTADCHITADRKVYPQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWI WFNLEPPPNCQHLEALDRYFNLTMSYRSDSDIFTPYGWLEPWSGQPAHPPLNLSAK

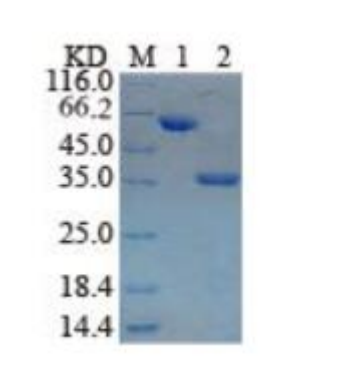
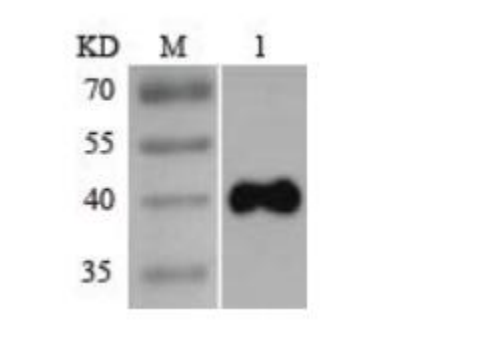
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	TELVAWAVSNWKPDSARVRYYQSLQAHLKVDVYGRSHKPLPKGTMMETLSRYKFY LAFENSLHPDYITEKLWRNALEAWAVPVVLGPSRSNYERFLPPDAFIHVDDFQSPKD LARYLQELDKDHARYLSYFRWRETLRPRSFSWALDFCKACWKLQQESRYQTVRSIA AWFT
Purity	≥85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.3 mg/mL
Storage Buffer	PBS buffer, pH 7.4

GENE INFORMATION

Gene Name	FUT3 fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group) [Homo sapiens (human)]
Official Symbol	FUT3
Synonyms	FUT3; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); fucosyltransferase 3 (galactoside 3(4) L fucosyltransferase, Lewis blood group included), LE; galactoside 3(4)-L-fucosyltransferase; CD174; Lewis FT; fucosyltransferase III; alpha-(1,3/1,4)-fucosyltransferase; blood group Lewis alpha-4-fucosyltransferase; LE; Les; FT3B; FucT-III; MGC131739
Gene ID	2525
mRNA Refseq	NM_000149

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Protein Refseq	NP_000140
MIM	111100
UniProt ID	P21217
SDS-PAGE analysis of purified CA19-9	 Line M: Marker Line 1: 0.5 mg/mL BSA Line 2: Purified CA19-9
WB analysis of purified CA19-9	 Line M: Marker

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	Line 1: Purified CA19-9

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