

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	<p>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.</p>
Molecular Mass	39.72 kDa
AA Sequence	<p>MGHHHHHHSGSEFRVSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTWPFHIPVA LSRCSEMVPGTADCHITADRKVYPQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWI WFNLEPPNQCQHLEALDRYFNLTMSYRSDSDIFTPYGWLEPWGQPAHPPLNLSAK</p>

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TELVAVAVSNWKPDSARVRYYYQSLQAHLKVDVYGRSHKPLPKGTMMETLSRYKFY
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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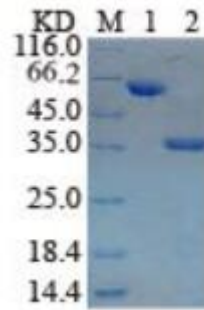
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_000140

MIM 111100

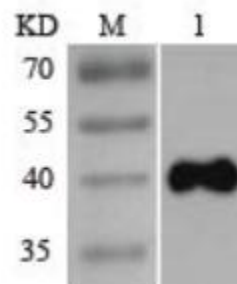
UniProt ID P21217

**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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