

Recombinant Human FUT9, GST-tagged

Cat. No. FUT9-13048H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FUT9 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 32-359a.a.

Description The protein encoded by this gene belongs to the glycosyltransferase family. It is localized to the golgi, and catalyzes the last step in the biosynthesis of Lewis X (LeX) antigen, the addition of a fucose to precursor polysaccharides. This protein is one of the few fucosyltransferases that synthesizes the LeX oligosaccharide (CD15) expressed in the organ buds progressing in mesenchyma during embryogenesis. It is also responsible for the expression of CD15 in mature granulocytes. A common haplotype of this gene has also been associated with susceptibility to placental malaria infection.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	FUT9 fucosyltransferase 9 (alpha (1,3) fucosyltransferase) [Homo sapiens]
Official Symbol	FUT9
Synonyms	fucosyltransferase 9 (alpha (1,3) fucosyltransferase); 4020; Ensembl:ENSG00000172461; alpha-(1,3)-fucosyltransferase;fucT-IX;fucosyltransferase IX;galactoside 3-L-fucosyltransferase; 2.4.1.152; Fuc-TIX
Gene ID	10690
mRNA Refseq	NM_006581.3
Protein Refseq	NP_006572.2
MIM	606865
UniProt ID	Q9Y231
Chromosome Location	6q16
Pathway	Glycosphingolipid biosynthesis - globo series, organism-specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;
Function	alpha-(1->3)-fucosyltransferase activity; fucosyltransferase activity;

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