

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FUT3 and human FUT5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human FUT5 Arg35-Thr374 Accession # Q11128
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

FUT5 (α-1, 3-fucosyltransferase 5; also Fuc-TV) is a 43 kDa member of the glycosyltransferase 10 family. It is responsible for the terminal step in the synthesis of Le^x, sialyl-Le^x, and Le^a antigens. This is accomplished by the transfer of fucose to preexisting LacNAc or sialyl-LacNAc structures. Human FUT5 is 374 amino acids (aa) in length. It is a type II transmembrane Golgi glycoprotein with a C-terminal lumenal domain (aa's 35-374). The catalytic domain spans aa's 77-374, while the acceptor-binding motif includes aa's 120-126. FUT5 is the product of a single exon gene. Thus, there are no splice variants. FUT5 only occurs in primates; there is no rodent ortholog.

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