Human Fucosyltransferase 11/FUT11 Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5964R
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FUT11 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) FUT3, rhFUT5, and rhFUT8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Fucosyltransferase 11/FUT11 Gly25-Leu492 Accession # AAH36037
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunocytochemistry	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

Fucose is frequently found at terminal sites on various glycans and is essential for the generation of many sugar epitopes. Well-known fucose containing glycans include Lewis and ABO blood group antigens. Lewis epitopes are key elements involved in leukocyte homing and extravasation process, thus are essential for lymphocyte maturation and natural defense functions (1). O-fucosylation on Notch receptor is found to be essential for its signaling function (2). So far, 11 carbohydrate specific fucosyltransferases are found in humans (3). FUT1 and FUT2 are α1-2 fucosyltransferases and are responsible for ABO blood group antigen synthesis (4). FUT3, FUT4, FUT5, FUT6, FUT7, and FUT9 are α1-3/4 fucosyltransferases and are responsible for Lewis antigen generation (5). FUT10 and FUT11 are newly cloned α1-3 fucosyltransferases that are distinct from the α1-3/4 fucosyltransferase subfamily and are able to introduce fucose to the innermost core GlcNAc of the N-glycan on conalbumin glycopeptides and biantennary N-glycan acceptors but not onto short lactosaminyl acceptor substrates (6). Predicted as a type II transmembrane protein and a Golgi resident enzyme, the exact function of this enzyme needs to be further characterized.

PRODUCT SPECIFIC NOTICES

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475