

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fucosyltransferase 8/FUT8 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Fucosyltransferase 8/FUT8 Asp32-Lys575 Accession # Q9BYC5
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.
Immunohistochemistry	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

FUT8 (Fucosyltransferase 8; also alpha 1,6 Fucosyltransferase) is a 60-65 kDa member of the glycosyltransferase 23 family of enzymes. It catalyzes the addition of fucose to Asn-linked GlcNAc via an α 1,6 linkage. FUT8 is widely expressed, and the effects of its fucosylation vary. A lack of fucosylation on IgG potentiates ADCC activity, while an absence of fucose on the EGF R and α 3 β 1 integrin decreases their activity. Human FUT8 is a type II transmembrane protein 575 amino acids (aa) in length. It contains a short cytoplasmic region (aa 1-9) plus an extended luminal domain (aa 31-575) that possesses one SH3 homology domain (aa 502-563). There are at least four potential splice variants. There is an alternate start site at Met479, a 14 aa substitution for aa 1-420, a 32 aa substitution for aa 1-161, and a two aa substitution for aa 444-575. Over aa 32-575, human FUT8 shares 97% aa identity with mouse FUT8.

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