

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 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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 α1,6 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 α3β1 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.