

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fucosyltransferase 8/FUT8 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) FUT3, rhFUT5, and rhFUT11 is observed.
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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Fucosyltransferase 8/FUT8 (Catalog # 5768-GT)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.