Human Fucosyltransferase 3/5 (FUT3/5) Lumenal Domain Antibody
Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4068

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 Formulation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL</td>
<td>Recombinant Human Fucosyltransferase 3/FUT3 (Catalog # 4950-GT)</td>
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<tr>
<td></td>
<td></td>
<td>Recombinant Human Fucosyltransferase 5/FUT5 (Catalog # 4949-GT)</td>
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<tr>
<td>Immunoprecipitation</td>
<td>25 μg/mL</td>
<td>Conditioned cell culture medium spiked with Recombinant Human Fucosyltransferase 3/FUT3 (Catalog # 4950-GT), see our available Western blot detection antibodies</td>
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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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 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
FUT5 (α1, 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 Leα, sialyl-Leα, and Leα 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.