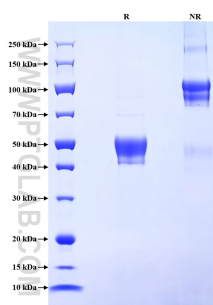


Recombinant Human FUT4 protein (rFc Tag)

Catalog Number: Eg2194

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: C-rFc
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human FUT4 protein Gly199-His302 (Accession# P22083-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 2526</p> <p>Accession: P22083-1</p> <p>Predicted Molecular Mass: 37.8 kDa</p> <p>SDS-PAGE: 40-50 kDa, reducing (R) condition</p> <p>Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>FUT4, also named as ELFT and FCT3A, belongs to the glycosyltransferase 10 family. FUT4 may catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens. The expression of CD15 (acts as a terminal glycotope in glycoproteins and glycolipids) is directed by FUT4 in promyelocytes and monocytes. FUT4 is an antigenic epitope defined as a Lewis X carbohydrate structure is expressed on murine embryonal carcinoma cells (EC), murine ES and iPS cells, and murine and human germ cells. It is widely used as a positive surface marker for mouse undifferentiated ES and iPS cells and a negative surface marker for human undifferentiated ES and iPS cells. Expression is down-regulated following differentiation of murine EC and ES cells, while the differentiation of human EC and ES cells is accompanied by an increase in FUT4 expression. FUT4 is associated with cell adhesion, migration and differentiation.</p>		
References	<ol style="list-style-type: none">1. Ming Yu, et al. (2017) Sci Rep. Jul 13;7(1):5315.2. Qin Zheng, et al. (2017) Cell Death Differ. Dec;24(12):2161-2172.3. F Nakayama, et al. (2001) J Biol Chem. May 11;276(19):16100-6.		
Synonyms			

Selected Validation Data



Purity of Recombinant Human FUT4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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