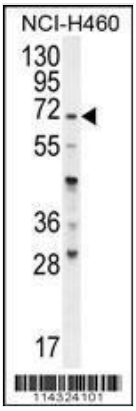
FUT4 Antibody – Rabbit Polyclonal

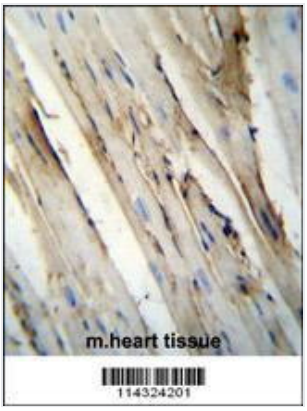
PRODUCT OVERVIEW

Product Name	FUT4, Polyclonal Antibody
Full Product Name	FUT4, CT (FUT4, ELFT, FCT3A, Alpha-(1,3)-fucosyltransferase, ELAM-1 ligand fucosyltransferase, Fucosyltransferase 4, Fucosyltransferase IV, Galactoside 3-L-fucosyltransferase) (MaxLight 650)
Product Gene Name	anti-FUT4 antibody
Product Synonym Names	FUT4; ELFT; FCT3A; Alpha-(1,3)-fucosyltransferase; ELAM-1 ligand fucosyltransferase; Fucosyltransferase 4; Fucosyltransferase IV; Galactoside 3-L-fucosyltransferase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59084 MW
OMIM	M58596 mRNA
3D Structure	ModBase 3D Structure for P22083
Immunogen	FUT4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 502-530 amino acids from the C-terminal region of human FUT4.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-FUT4 antibody	Antibodies; Enzymes; Glycosyltransferase
Applications Tested/Suitable for anti-FUT4 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-FUT4 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-FUT4 antibody	The product of this gene transfers fucose to N-acetyllactosamine polysaccharides to generate fucosylated carbohydrate structures. It catalyzes the synthesis of the non-sialylated antigen, Lewis x (CD15).
Product References and Citations for anti-FUT4 antibody	Yang, X.S., et al. J. Cell. Physiol. 225(2):612-619(2010). Trubiani, O., et al. J. Cell. Physiol. 225(1):123-131(2010). Pruszak, J., et al. Stem Cells 27(12):2928-2940(2009). Ogata, K., et al. Haematologica 94(8):1066-1074(2009). Read, T.A., et al. Cancer Cell 15(2):135-147(2009).

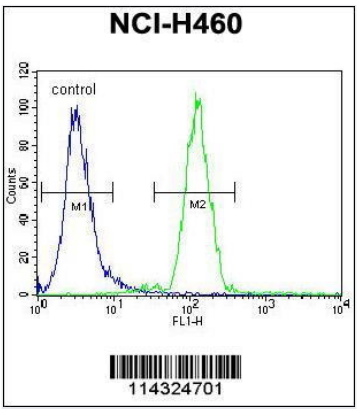
Other Notes	Small volumes of anti-FUT4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FUT4 purchase	MBS6300397 is an antibody targeting FUT4. Also known as FUT4, CT (FUT4, ELFT, FCT3A, Alpha-(1,3)-fucosyltransferase, ELAM-1 ligand fucosyltransferase, Fucosyltransferase 4, Fucosyltransferase IV, Galactoside 3-L-fucosyltransferase) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-FUT4 antibody
FUT4 Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the FUT4 antibody detected the FUT4 protein (arrow).



Immunohistochemistry (IHC) of anti-FUT4 antibody
FUT4 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FUT4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-FUT4 antibody
FUT4 Antibody (C-term) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FUT4. It may not necessarily be applicable to this product.

NCBI GI #	4503811
NCBI GeneID	2526
NCBI Accession #	NP_002024.1
UniProt Primary Accession #	P22083
UniProt Secondary Accession #	B2RMS0
UniProt Related Accession #	P22083
GenBank Nucleotide #	NM_002033.3
NCBI Official Full Name	alpha-(1,3)-fucosyltransferase 4

NCBI Official Synonym Full Names	fucosyltransferase 4
NCBI Official Symbol	FUT4
NCBI Official Synonym Symbols	LeX; CD15; ELFT; FCT3A; FUTIV; SSEA-1; FUC-TIV
UniProt Protein Name	Alpha-(1,3)-fucosyltransferase 4
UniProt Synonym Protein Names	ELAM-1 ligand fucosyltransferase; Fucosyltransferase 4; Fucosyltransferase IV; Fuc-TIV; FucT-IV; Galactoside 3-L-fucosyltransferase
Protein Family	Alpha-(1,3)-fucosyltransferase
UniProt Gene Name	FUT4
UniProt Synonym Gene Names	ELFT; FCT3A; Fuc-TIV; FucT-IV
NCBI Protein Information	alpha-(1,3)-fucosyltransferase 4
UniProt Comments for FUT4	May catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens.
Research Articles on FUT4	**1.** study enhances the understanding of cancer cell-brain endothelial adhesion and confirms that CD15 plays a crucial role in adhesion
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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