

Mouse Anti-FUT4 antibody

SLM-33111M

Product Name FUT4

Chinese Name α -(1,3)-岩藻糖基转移酶 4 单克隆抗体

Alias

SSEA-1; 3-FAL; Alpha (1,3) fucosyltransferase; Alpha 13 fucosyltransferase FucT; EC 2.4.1.; ELAM 1 ligand fucosyltransferase; ELAM ligand fucosyltransferase; ELAM1 ligand fucosyltransferase; ELFT; FCT3A; Fuc TIV; Fucosyltransferase 4 alpha 1 3 fucosyltransferase myeloid specific; Fucosyltransferase 4; FucT IV; FUCTIV; Galactoside 3 L fucosyltransferase; Lewis X; LeX; SSEA 1; SSEA1; Stage specific embryonic antigen 1; FUC-TIV.

Research Area

Tumour Cell biology immunology The cell membrane 受体

Immunogen Species

Mouse

Clonality

Monoclonal

Clone NO.

8B9

React Species

Human,

Applications

IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000,Flow-Cyt=1ug/Test,ICC/IF=1:50-200
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

58kDa

Cellular localization

The cell membrane

Form

Liquid

Concentration

1mg/ml

immunogen

KLH conjugated synthetic peptide derived from human FUT4

Lsotype

IgG

Purification

affinity purified by Protein G

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene. [provided by RefSeq]. Function: May catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens. Subcellular Location: Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Membrane-bound form in trans cisternae of Golgi.
Product Detail	Tissue Specificity: Highest expression in stomach and colon. It is also expressed in the lung, testis, uterus, small intestine and to a lesser extent in spleen, and ovary. Present in trace amounts in brain, thymus, heart, smooth muscle, kidney and bone marrow. Not found in liver, salivary gland and pancreas. Similarity: Belongs to the glycosyltransferase 10 family. SWISS: P22083 Gene ID: 2526 Database links: Entrez Gene: 10690 Human Entrez Gene: 2526 Human

[Entrez Gene: 2527](#) Human

[Entrez Gene: 2528](#) Human

[Entrez Gene: 2529](#) Human

[Omim: 104230](#) Human

[SwissProt: P22083](#) Human

[SwissProt: P51993](#) Human

[SwissProt: Q11128](#) Human

[SwissProt: Q11130](#) Human

[SwissProt: Q9Y231](#) Human

[Unigene: 390420](#) Human

[Unigene: 457](#) Human

[Unigene: 49117](#) Human

[Unigene: 572064](#) Human

[Unigene: 623098](#) Human

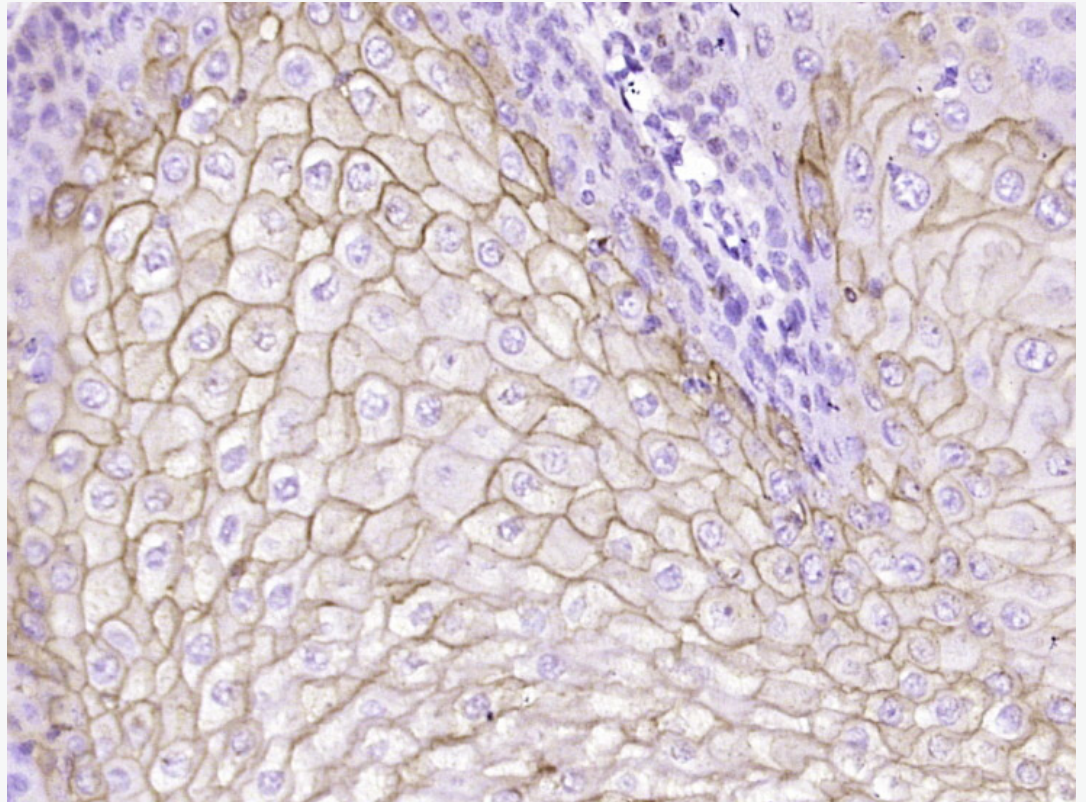
[Unigene: 631843](#) Human

[Unigene: 631846](#) Human

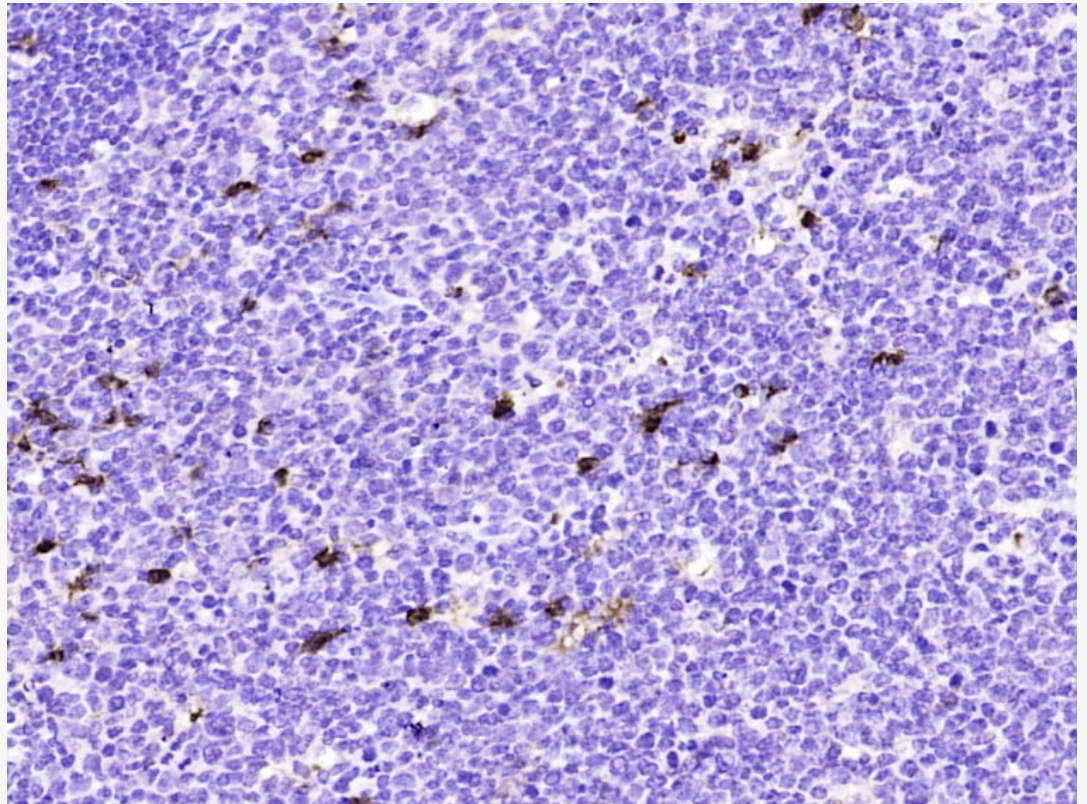
[Unigene: 705615](#) Human

FUT4, 也称为 ELFT 和 FCT3A, 属于糖基转移酶 10 家族。FUT4 可催化参与 Lewis X/SSEA-1 和 VIM-2 抗原表达的 α -1,3 糖苷键。FUT4 是一种抗原表位, 定义为 Lewis X 碳水化合物结构, 在鼠胚胎癌细胞 (EC)、鼠 ES 和 iPS 细胞以及鼠和人类生殖细胞上表达。它被广泛用作小鼠未分化 ES 和 iPS 细胞的阳性表面 Marker 和人未分化 ES 和 iPS 细胞的阴性表面 Marker。

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (Human esophageal); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FUT4) Monoclonal Antibody, Unconjugated (ascites of SLM-33111M) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FUT4) Monoclonal Antibody, Unconjugated (ascites of SLM-33111M) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.