FUT3 monoclonal antibody, clone 2-25LE

Catalog # MAB21197 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against human FUT3.
Immunogen	Mucin isolated from a human ovarian cyst fluid.
Host	Mouse
Theoretical MW (kDa)	45
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunofluorescence

Gene Info — FUT3

Entrez GeneID	2525
Protein Accession#	P21217
Gene Name	FUT3
Gene Alias	CD174, FT3B, FucT-III, LE, Les, MGC131739
Gene Description	fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)
Omim ID	111100
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	Lewis FT|alpha-(1,3/1,4)-fucosyltransferase|blood group Lewis alpha-4-fucosyltransferase|fucosyltransferase 3|galactoside 3(4)-L-fucosyltransferase

Pathway

- Glycosphingolipid biosynthesis - lacto and neolacto series
- Metabolic pathways

Disease

- Asthma
- Atherosclerosis
- Breast Neoplasms
- Caliciviridae Infections

- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Coronary Disease
- Cystic fibrosis
- Diabetes Mellitus
- Edema
- Gastritis
- Genetic Predisposition to Disease
- Helicobacter Infections
- Lymphatic Metastasis
- Obesity
- Peptic Ulcer
- Pseudomonas Infections
- Stomach Neoplasms
- Stomach Ulcer
- Thrombosis