

Mouse Blood Group Antigen Lewis B Monoclonal Antibody | anti-FUT3 antibody

Blood Group Antigen Lewis B Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13833	Mouse	Human, Guinea Pig	Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

Blood Group Antigen Lewis B; Monoclonal Antibody; Blood Group Antigen Lewis B Mouse Monoclonal Antibody; Blood group Lewis alpha-4-fucosyltransferase; Fucosyltransferase 3; Fucosyltransferase III; FucT-III; FUT3; Galactoside 3(4)-L-fucosyltransferase; gastric mucin; leB; lewis antigen system; lewis B blood group antigen; Lewis FT; major airway glycoprotein; anti-FUT3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Guinea Pig
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPM194
Specificity	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. Lewis blood group antigens are carbohydrate moieties structurally integrated in mucous secretions. Lewis antigen system alterations have been described in gastric carcinoma and associated lesions. Anomalous expression of Lewis B antigen has been found in some non-secretory gastric carcinomas and colorectal cancers.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	361
Applicable Applications for anti-FUT3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Immunofluorescence (1-3ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Cellular Localization	Goli apparatus, Golgi stock membrane
Immunogen	Mucin isolated from a human ovarian cyst fluid
Positive Control	Colon
Research Area	Cardiovascular
Preparation and Storage	Antibody with azide: store at 2 to 8°C. Non hazardous.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Blood Group Antigen
Lewis B Mouse Monoclonal Antibody (SPM194).

ADDITIONAL INFORMATION

References	Richman, P.I. et al. 1987. Monoclonal antibodies to human colorectal epithelium: markers for differentiation and tumour characterization. Int. J. Cancer. 39: 317-328. Rouger, P.h., et al, eds. 1987. Proceedings of the first international work- shop on monoclonal antibodies against human red blood cells and related antigens (Paris, 1987). Blood Transfusion Immunohaematology 30: 353- 720. Bara, J. et al. 1988. Immunochemical characterization of mucins. Polypeptide (M1) and polysaccharide (A and Leb) antigens. Biochem. J. 254: 185-193. Torrado J, Correa P, Ruiz B, Bernardi P, Zavala D, Bara J. Lewis antigen alterations in gastric cancer precursors. Gastroenterology. 1992 Feb;102(2):424-30. Creuzot-Garcher C, Guertzider V, Assem M, Bron AM, Delannoy P, Bara. Alteration of sialyl Lewis epitope expression in pterygium. J.Invest Ophthalmol Vis Sci. 1999 Jul;40(8):1631.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503809
NCBI GeneID	2525
NCBI Accession #	NP_000140.1
NCBI GenBank Nucleotide #	NM_000149.3
UniProt Accession #	P21217; Q32NE7; Q99448; Q99449; B5U7U9; B5U7V0
Molecular Weight	45kDa
NCBI Official Full Name	galactoside 3(4)-L-fucosyltransferase
NCBI Official Synonym Full Names	fucosyltransferase 3 (Lewis blood group)
NCBI Official Symbol	FUT3
NCBI Official Synonym Symbols	LE; Les; FT3B; CD174; FucT-III
NCBI Protein Information	galactoside 3(4)-L-fucosyltransferase
UniProt Protein Name	Galactoside 3(4)-L-fucosyltransferase
UniProt Gene Name	FUT3
UniProt Synonym Gene Names	FT3B; LE; Lewis FT; FucT-III
UniProt Entry Name	FUT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.