Data Sheet (Cat.No.TMAB-06216)

Anti-FUT4 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 58 kDa. Actual: 58 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Large intestine (Mouse) Lysate at 40 µg Primary: Anti-FUT4 (TMAB-06216) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 58 kD Observed band size: 58 kD 2. Sample: LOVo (Human) Cell Lysate at 30 µg Primary: Anti-FUT4 (TMAB-06216) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 58 kD Observed band size: 58 kD 3. Overlay histogram showing HL 60 cells stained with TMAB-06216 (Green line). The cells were fixed with 90% methanol (5 min) and then permeabilized with 0.01M P1 µg/1x10^6 cells) for 30 min at 22℃. The secondary antibody used was fluorescein isothiocyanate goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 22℃. Isotype control antibody was rabbit IgG (polyclonal, Orange line) (1 µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of 20,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.
Application:	WB,FCM
Recommended	WB: 1:500-2000; FCM: 1µg/Test

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human FUT4
Antigen Species:	Human
Gene ID:	2526
Uniprot ID:	P22083

Research Background

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].

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