

Anti-Hu CD15 Purified FUT4 Monoclonal Antibody

Catalog Number: M04535-1

About FUT4

CD15 (Lewis x), also known as stage specific embryonic antigen-1 (SSEA-1) is a trisaccharide determinant (3-fucosyl-N-acetyllactosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumour cells. There are several structural relatives of Lewis x, e.g. sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm diagnosis of Hodgkin's disease.

Overview

Product Name	Anti-Hu CD15 Purified FUT4 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD15 Purified FUT4 Monoclonal Antibody (Catalog# M04535-1). Tested in Flow Cytometry, IHC-P, IHC-F, ICC application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC-P, IHC-F, ICC
Clonality	Monoclonal MMA
Formulation	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P22083

Technical Details

Immunogen	U937 histiocytic lymphoma cells. The mouse monoclonal antibody MMA reacts with an extracellular epitope of CD15, a cell membrane 3-fucosyl-N-acetyllactosamine (3-FAL) strongly expressed on granulocytes, monocytes, macrophages, mast cells; it is also present on Langerhans cells and some myeloid precursors cells. This antibody is a superior reagent for identifying of Hodgkin's lymphoma.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgM kappa
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow cytometry: 1-4 ug/ml.</p>

Anti-Hu CD15 Purified FUT4 Monoclonal Antibody (M04535-1) Images

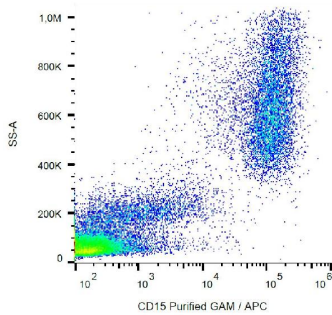


Figure 1. Flow Cytometry validation of FUT4 using Anti-Hu CD15 Purified FUT4 Monoclonal Antibody (M04535-1).

Flow cytometry analysis (surface staining) of CD15 in human peripheral blood with anti-CD15 (MMA) purified

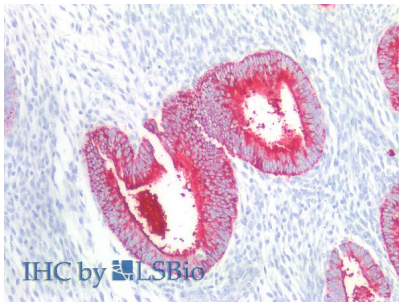


Figure 2. Immunohistochemistry validation of FUT4 using Anti-Hu CD15 Purified FUT4 Monoclonal Antibody (M04535-1).

Immunohistochemistry staining of human uterus (paraffin-embedded sections) with anti-CD15 (MMA)

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