Conjugation

5 x 10^5 cells in a standard immunofluorescence assay

Purification

(*): 20 µL is the quantity of product sufficient to stain

Fluorescence

Hybridoma

IOTest

REAGENT

1984 (9).

Differentiation Antigens in Boston, USA, in Workshop on Human Leukocyte
differentiation at the 2nd International
been assigned to the CD22 cluster of
lymphocytes.

expression of CD22 antigen is restricted to B
(1). On peripheral whole blood, the
differentiation prior to the plasma cell stage
mature B lymphocytes (1). The CD22 antigen
membraneous IgD, and is found on most
simultaneously with the expression of
pro-B stage), appears on the cell surface
cytoplasm early during B cell ontogeny (late
7, 8).

The CD22 antigen is detected in the
erythrocytes or leucocytes interactions (2, 5,
association with glycoprotein (MAG), a member of
the sialoadhesin family (2). The N-terminal
domain distal to the membrane is a V-type Ig
domain whereas the others six domains proximal to the membrane are C2-type Ig
domains (2). The cytoplasmic domain of
CD22 includes six tyrosine residues that are
possible targets for phosphorylation. Some
regions of the intracytoplasmic tail are
homologous to the tyrosine-based activations
motifs (ITIM) and some others to the
tyrosine-based inhibition motifs (ITIM) (2, 3).

CD22 appears constitutively associated with
the BCR (B Cell antigen Receptor) and this
may involve CD22 recognition of membrane
IgM carbohydrate determinants (4–6). The
CD22 molecule mediates adhesion of B-B
lymphocyte interactions, and B cells and
erthyrocytes or leucocytes interactions (2, 5,
7, 8).

The CD22 antigen is detected in the
cytoplasm early during B cell ontogeny (late
pro-B stage), appears on the cell surface
simultaneously with the expression of
membrane IgD, and is found on most
mature B lymphocytes (1). The CD22 antigen
is lost during the terminal stages of
differentiation prior to the plasma cell stage
(1). On peripheral whole blood, the
expression of CD22 antigen is restricted to B
lymphocytes.

The SJ10.1H11 monoclonal antibody has been
assigned to the CD22 cluster of
differentiation at the 2nd International
Workshop on Human Leukocyte
Differentiation Antigens in Boston, USA, in
1984 (9).

REAGENT

IOTest CD22-FITC Conjugated Antibody
PN IM0779U – 2 mL Liquid – 20 µL / test*.  
Clone

SJ10.1H11

Isotype

IgG1, mouse

Immunogen

Human NALM1 cell line

Hybridoma

SP2/0 x Balb/c

Source

Ascites fluid

Purification

Ion exchange or affinity chromatography

Conjugation

FITC (Fluorescein isothiocyanate) is
conjugated at 5 – 7 moles of FITC per mole of Ig.

Fluorescence

FITC (Green)

Excites at 468 – 509 nm

Emits at 504 – 541 nm

REAGENT CONTENTS

This reagent is provided in phosphate-
buffered saline, with 0.1% sodium azide (Na3
as preservative, and 2.0 mg / mL
bovine serum albumin (BSA).

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid
conditions yields hydrazoic acid, an
extremely toxic compound. Azide
compounds should be flushed with
running water while being discarded. These
precautions are recommended to
avoid deposits in metal piping in which
explosive conditions can develop. If skin
or eye contact occurs, wash excessively
with water.

2. Do not use antibody beyond the
expiration date on the label.

3. Samples and all material coming in
contact with them should be handled as if
samples with skin and mucous
membranes

5. Minimize exposure of reagent to light
during storage or incubation.

6. Avoid microbial contamination of
reagents or incorrect results might occur.

7. Use good laboratory practices when
handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration
date when stored at 2 – 8°C. Do not freeze.

MINIMIZE exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of
this FITC-labeled reagent (clear, colorless to
yellowish-green liquid) or any major variation
from the expiration date when stored at 2 – 8°C. Do not freeze.

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