

Wako

for Glycobiology & Influenza Research

Anti Sia α 2-3, Monoclonal Antibody (**HYB4**)

Wako Catalog No. 011-25171 (200 μ L)

★The previous catalog number 013-23791 was discontinued.

Detection of Sialyl α 2-3 linked sugar chain

For research of Influenza virus and Glycoviropology

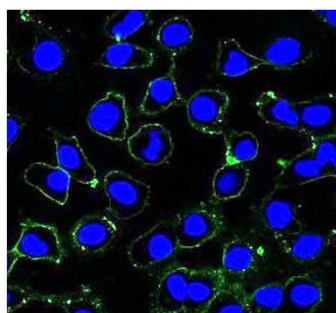
For many application for immunological assays (IgG₃)

The HYB4 monoclonal antibody is used for detection of sugar chains which was including Sia α 2-3 Gal motif such as GM₃, GM₄, IV³ NeuAcnLc₄ Cer, etc.

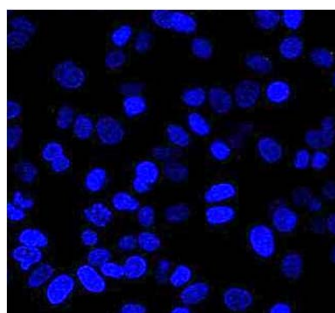
It is applicable to the research of the interrelation of influenza viruses with sialo-glycoconjugate receptors.

■ HYB4 MAb Immunostaining

HYB4 / DAPI



IgG3 / DAPI



< Negative Control >

Immunostaining of A549 cells

Primary antibody : **HYB4**

Secondary antibody : FITC-mouse IgG

DAPI: a DNA marker

■ HYB4 MAb reactivity

1. Glycolipid

IV ³ NeuAcnLc ₄ Cer	++
IV ⁶ NeuAcnLc ₄ Cer	-
GM ₄	+
GM ₃ (NeuAc)	+++
GM ₃ (NeuGc)	-
GM ₂	-
GM _{1a}	-
GD _{1a}	-
GD ₃	-
nLc ₄ Cer	-

2. Glycoprotein

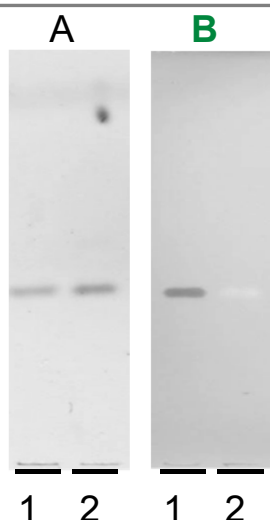
N-linked	++
O-linked	+

HYB4 epitopeSugar chain motif: NeuAc α 2-3 Gal β 1-4Glc(GlcNAc) β 1-R

Data : Dr. Kazuya IPJ Hidari of Junior Collage of Aizu

Maho Yamaguchi and Dr. Takashi Suzuki of Department of Biochemistry, School of Pharmaceutical Sciences, University of Shizuoka.

■ HYB4 MAb Detection of Glycolipid



Detection of α 2-3 linked glycolipids (TLC-Western blot)

Plate A: Orcinol staining

Plate B: **HYB4 Immunostaining**

Lane 1: IV³ Neu AcnLc₄ Cer

Lane 2: IV⁶ Neu AcnLc₄ Cer

Developing solvent:

CHCl₃ / CH₃OH / 12 mM MgCl₂ (50 : 40 : 10 by vol.)

Data : Dr. Kazuya IPJ Hidari of Junior Collage of Aizu, and Maho Yamaguchi and Dr. Takashi Suzuki of Department of Biochemistry, School of Pharmaceutical Sciences, University of Shizuoka.

■ HYB4 MAb Product Information

[Concentration]

Indicated on each label.

[Formulation]

1x PBS (pH 7.2) aqueous solution with 50 % glycerol.

[Clone No.]

HYB4

[Cross Reactivity]

GM3, GM4, α 2-3 nLc₄ Cer

[Subclass]

IgG₃·K

[Working Dilution]

SDS-PAGE / Western Blot 10 - 50 μ g/mL

ELISA 5 - 25 μ g/mL

Flow Cytometry 5 - 25 μ g/mL

Immunocytochemistry 10 - 100 μ g/mL

Please optimize the most appropriate concentration for your analysis conditions and samples.

[Storage]

Keep at -20°C.

Avoid repeated freezing and thawing.

Description	Wako Cat. No.	Package size
Anti Sia α2-3, Monoclonal Antibody (HYB4)	011-25171	200 μ L

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