



Mucin 2 (MUC2 Glycoprotein) (FITC) discontinued

Catalog number

M4700-24A

Supplier

United States Biological

MUC-type mucins comprise a family of structurally related high molecular weight (> 200kD) glycoproteins that are expressed in different epithelia that are in close contact with the milieu. Because of their large size and very complex structure, containing very extensive O-glycosylation, MUC-type mucins are difficult to study by conventional techniques. Mucins are seen as protective molecules. However, functional studies are scarce. MUC2 is an intestinal apomucin also known as intestinal MRP (Mucin Related Protein) antigen. It is expressed in mucinous tumors but not in serous tumors. Expression of MUC-2 is found in a low percentage of borderline malignancies and in ~55% of carcinomas that also express MUC1.

Applications

Suitable for use in Flow Cytometry. Other applications not tested.

Recommended Dilutions

Flow Cytometry: Neat-1:10; Use 10ul to label 1×10^6 cells in 100ul. Membrane permeabilization is required.

Optimal dilutions to be determined by the researcher.

Source

Tissue culture supernatant

Hybridoma

NSO myeloma cells with spleen cells from Balb/c mice.

Recommended Negative Control

I1904-78R3: IgG1 Murine Negative Control (FITC)

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. FITC conjugates are sensitive to light.

Immunogen

MUC2 tandem repeat peptide

Formulation

Supplied as a liquid in PBS, pH 7.4, 1% BSA, 0.09% sodium azide. Labeled with fluorescein isothiocyanate (FITC).

Purity

Purified by Protein G affinity chromatography from tissue culture supernatant.

**Specificity**

Recognizes human Mucin 2 (MUC2). Does not crossreact with MUC1, MUC3 or MUC4 mucins.

Product Type

Mab

Source

human

Isotype

IgG1

Grade

Affinity Purified

Applications

FC

Crossreactivity

Hu

Storage

-20°C

Detection Method

FITC

Reference

1. Durrant, L.G. et al. (1994) Production of monoclonal antibodies recognising the peptide core of MUC2 intestinal mucin. Eur. J. Cancer 30A: 355-363.