Human MUC-4 APC-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 781631

Catalog Number: FAB8195A

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MUC-4 in ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 781631
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human MUC-4 Accession # Q99102
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

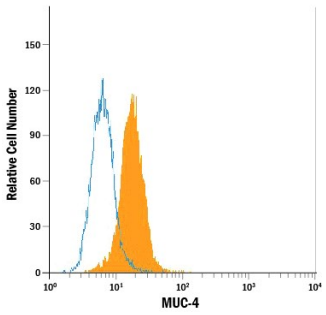
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of MUC-4 in MCF-7 Human Cell Line by Flow Cytometry. MCF-7 human breast cancer cell line was stained with Mouse Anti-Human MUC-4 APC-conjugated Monoclonal Antibody (Catalog # FAB8195A, filled histogram) or isotype control antibody (Catalog # IC0041A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

MUC-4 (Mucin-4), also called ASGP (ascites sialoglycoprotein) is a highly glycosylated type I transmembrane glycoprotein that may be up to 950 kDa in its full-length, fully glycosylated form. Human MUC-4 cDNA encodes 2169 amino acids (aa) with a 28 aa signal sequence and a cleavage site that creates a 1416 aa soluble, extracellular alpha chain and a 725 aa single-pass transmembrane beta chain. Between aa 1072-1317 within the alpha chain, human MUC-4 shares 69% aa sequence identity with mouse and rat MUC-4. At least 14 soluble or transmembrane splice variants of 1102-2117 aa have been described, 5 of which contain the full sequence used as an immunogen. MUC-4 can serve as a ligand for the oncogenic receptor ErbB2 and a modulator of its phosphorylation and signaling. MUC-4 is frequently aberrantly expressed in epithelial tumors and can promote tumor growth and metastasis.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956