

Synonym

Mucin 1, MUC1, CD227, EMA, H23AG, KL-6, MAM6, MUC-1, SEC, MUC-1, X, MUC1, ZD, PEM, PEMT, PUM, CA15-3, Episialin

Source

APC-Labeled Human Mucin-1 Protein, His Tag (MU1-HA2H8) is produced via conjugation of APC to Human Mucin-1 Protein, His Tag with a new generation site-specific technology under optimal conditions with a proprietary technology. Human Mucin-1 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 890 - Gly 1158 (Accession # [P15941-1](#)). Predicted N-terminus: Ser 890 (partial α chain) & Ser 1098 (partial β chain)

Molecular Characterization

Mucin-1(Ser 890 - Gly 1158) P15941-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 21.3 kDa (partial α chain) & 10.2 kDa (partial β chain).

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

Application

Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

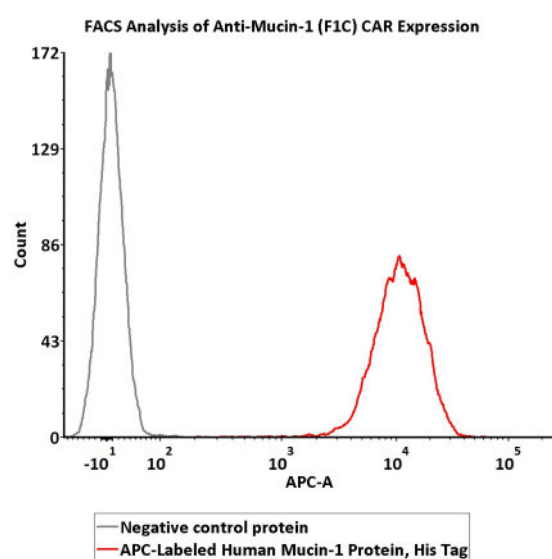
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-FACS



5×10^5 of anti-Mucin-1 (F1C) CAR-293 cells were stained with 100 μ L of 1:50 dilution (2 μ L stock solution in 100 μ L FACS buffer) of APC-Labeled Human Mucin-1 Protein, His Tag (Cat. No. MU1-HA2H8) and negative control protein respectively. APC signal was used to evaluate the binding activity (QC tested).

Background

Membrane mucins have several functions in epithelial cells including cytoprotection, extravasation during metastases, maintenance of luminal structure, and signal transduction. MUC17, contains an extended, repetitive extracellular glycosylation domain and a carboxyl terminus with two EGF-like domains, a SEA module domain, a transmembrane domain, and a cytoplasmic domain with potential serine and tyrosine phosphorylation sites. Interacts via its C-terminus with PDZK1 and this interaction appears important for proper localization. Probably plays a role in maintaining homeostasis on mucosal surfaces.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.