iFluor™ 647 Conjugated Anti-MUC1 Antibody [PSH0-49]

HA600108F

Product Type:	Mouse monoclonal IgG2a, primary antibodies
Species reactivity:	Human
Applications:	FC
Molecular Wt:	Predicted band size: 122 kDa
Clone number:	PSH0-49

Description: This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.

Conjugate: iFluor™ 647, Ex: 656nm; Em: 670nm.

Immunogen: Synthetic peptide of core peptide domain of human MUC1.

Positive control: MCF7, SK-Br-3.

Subcellular location: Apical cell membrane. Secreted. Nucleus, Cell membrane, Cytoplasm.

Database links: SwissProt: P15941 Human

Recommended Dilutions:

FC	1:500-1:1,000

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

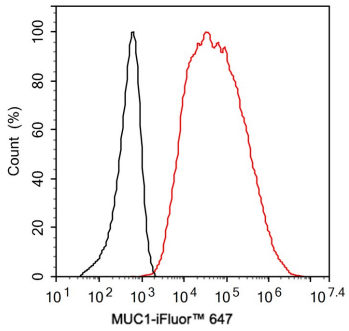

Fig1: Flow cytometric analysis of MCF7 cells labeling MUC1.

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4℃ with MUC1 (HA600108F, red, 1ug/ml) and Mouse IgG Isotype Control (iFluor™ 488, green, 1ug/ml). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

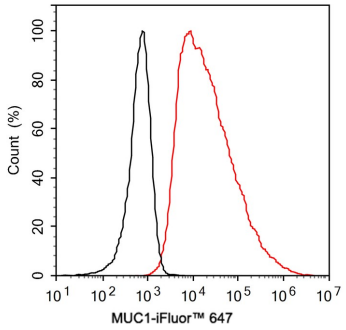

Fig2: Flow cytometric analysis of SK-Br-3 cells labeling MUC1.

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4℃ with MUC1 (HA600108F, red, 1ug/ml) and Mouse IgG Isotype Control (iFluor™ 488, green, 1ug/ml). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Background References

1. Taylor-Papadimitriou J. et. al. Latest developments in MUC1 immunotherapy. Biochem Soc Trans. 2018 Jun
2. Kato K. et. al. MUC1: The First Respiratory Mucin with an Anti-Inflammatory Function. J Clin Med. 2017 Nov