

Monkey CD227(MUC1)

Cat No.: 03-01-1521

Product Name: Monkey CD227(MUC1)

Description: "Mucin 1(MUC1) 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. MUC1 is overexpressed in many

cancers including colon, breast, ovarian, lung and

pancreatic cancers. On cancer cells, MUC1 lost polarized

expression and glycosylation property. MUC1 was initially

identified from cancer cells as important cancer marker and

named as CA 27.29 (aka BR 27.29) and CA 15-3. CA 27.29 (aka BR 27.29) and CA 15-3 measure different epitopes of the same protein antigen product of the MUC1 gene seen in breast cancer. CA 27.29 has enhanced sensitivity and specificity compared to CA 15-3 and is elevated in 30% of patients with low-stage disease and 60 to 70% of patients with advanced-stage breast cancer. CA 27.29 levels over 100 U/mL and CA 15-3 levels over 25 U/mL are rare in benign conditions and suggest malignancy."

Type: Recombinant Protein

Property: XP_005541630 (aa.22-387)

Source: HEK293

Genbank No.: XP_005541630

Applications: ELISA, WB, Immunogen

Formulation: Each vial contains 50ug purified protein(1mg/ml) in

PBS(pH7.4).

Purity: >95%

Storage: Store at -80°C, Avoid freeze / thaw cycle.

Limitation: For research use only, not for use in diagnostic procedures.