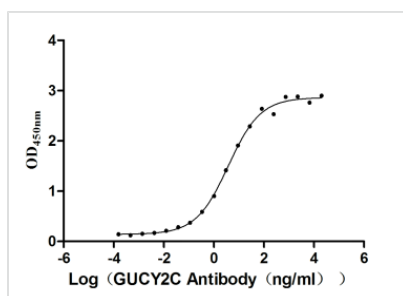




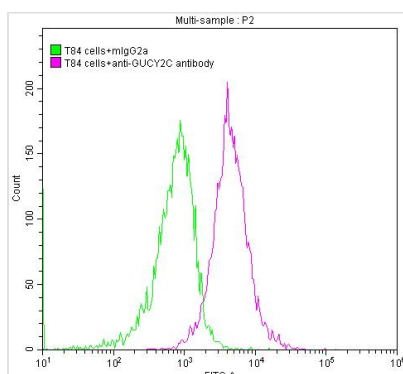
GUCY2C Recombinant Monoclonal Antibody

Product Code	CSB-RA010053A2HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P25092
Immunogen	Recombinant Human GUCY2C protein
Species Reactivity	Human
Tested Applications	ELISA, FC; Recommended dilution: FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	IgG2a
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	GUCY2C
Clone No.	4G12

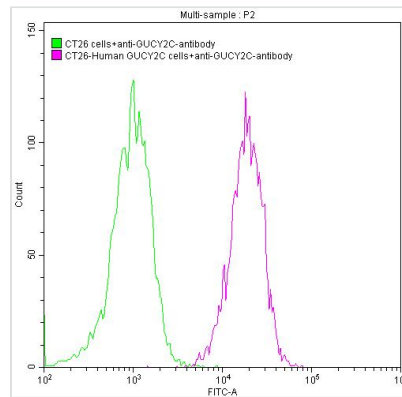
Image



The Binding Activity of Human GUCY2C with Anti-GUCY2C recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized human GUCY2C (CSB-MP010053HUd9) at 5 µg/mL can bind Anti-GUCY2C recombinant antibody, the EC₅₀ is 3.049-4.660 ng/mL.



T84 cells were stained with Mouse IgG2a (green line) and anti-GUCY2C antibody (red line) (2µg/1*10⁶cells), washed and then followed by FITC-conjugated Goat Anti-Mouse IgG(H+L) antibody and analyzed with flow cytometry.



Untransfected CT26 cells surface (green line) and transfected Human GUCY2C CT26 stable cells surface (red line) were stained with anti-GUCY2C antibody ($2\mu\text{g}/1 \times 10^6$ cells), washed and then followed by FITC-conjugated Goat Anti-Mouse IgG(H+L) antibody and analyzed with flow cytometry.

Description

The generation of the GUCY2C recombinant monoclonal antibody follows a meticulous and well-defined process to ensure its exceptional quality and specificity. It begins with the isolation of B cells from the spleen of an immunized animal, where the recombinant mouse GUCY2C protein is used as the immunogen. RNA is extracted from the B cells and converted into cDNA through reverse transcription. The GUCY2C antibody genes are then amplified using specific primers targeting the antibody constant regions and inserted into an expression vector. This vector is transfected into host cells, allowing for the production of the GUCY2C recombinant monoclonal antibody. After a period of cell culture, the antibody is harvested from the supernatant and purified using affinity chromatography, resulting in a highly purified form suitable for diverse applications. Rigorous characterization assays, including ELISA and FC analysis, are conducted to validate the antibody's specificity and functionality in detecting mouse GUCY2C protein.