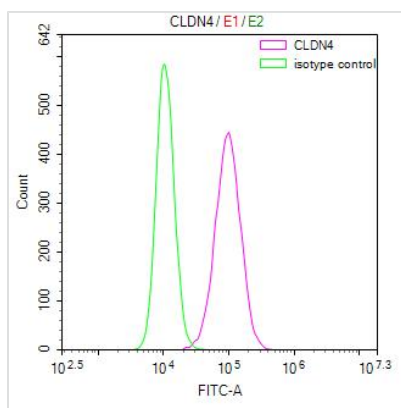




CLDN4 Recombinant Monoclonal Antibody

Product Code	CSB-RA005506MA2HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O14493
Immunogen	A synthesized peptide derived from Human CLDN4
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	Mouse IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	CLDN4
Clone No.	10F4

Image



Overlay Peak curve showing MCF7 cells surface stained with CSB-RA005506MA2HU (red line) at 1:100. Then 10% normal goat serum was incubated to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4 °C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The generation of the CLDN4 recombinant monoclonal antibody involved the integration of CLDN4 antibody genes into plasmid vectors. These engineered plasmid vectors were subsequently introduced into appropriate host cells using exogenous protein expression techniques to facilitate antibody production. Following this production phase, the CLDN4 recombinant monoclonal antibody underwent purification through affinity chromatography. Comprehensive validation was conducted to confirm the suitability of this CLDN4 recombinant



monoclonal antibody for both ELISA and FC applications.

CLDN4 protein is a critical component of tight junctions in epithelial tissues. Its main function is to establish and maintain the integrity of epithelial barriers, regulate ion and molecule transport across these barriers, and contribute to cell polarity and differentiation. Proper CLDN4 function is essential for the normal physiological function of various organs and tissues.