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SCGB1A1 Recombinant Monoclonal Antibody

Product Code	CSB-RA614787A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P11684
Immunogen	A synthesized peptide derived from Human SCGB1A1
Species Reactivity	Human
Tested Applications	ELISA, FC; Recommended dilution: FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
lsotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	SCGB1A1
Clone No.	21B2

Image



Overlay Peak curve showing A549 cells stained with CSB-RA614787A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific proteinprotein interactions followed by the antibody (1 μ g/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1 μ g/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The SCGB1A1 recombinant monoclonal antibody is generated through in vitro expression systems, involving the cloning of SCGB1A1 antibody DNA sequences from immunoreactive rabbits. The immunogen used is a synthesized peptide derived from the human SCGB1A1 protein. Subsequently, the genes encoding the SCGB1A1 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to facilitate antibody expression. The SCGB1A1 recombinant monoclonal antibody then undergoes

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affinity-chromatography purification and is thoroughly tested for functionality in ELISA and FC applications, displaying reactivity with the human SCGB1A1 protein during these evaluations.

SCGB1A1, also known as Clara cell secretory protein (CCSP), is a protein primarily produced by Clara cells in the respiratory tract, and its main functions are to protect the lungs from oxidative stress, inflammation, and pathogens, while also contributing to lung homeostasis and repair.