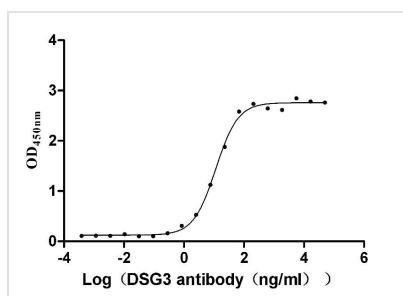




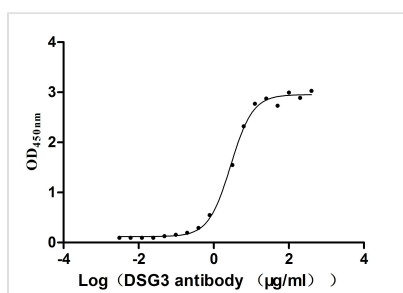
DSG3 Recombinant Monoclonal Antibody

Product Code	CSB-RA007205A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P32926
Immunogen	Recombinant Human DSG3 protein
Species Reactivity	Human, Mouse
Tested Applications	ELISA
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	mIgG1
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	DSG3
Clone No.	4C2

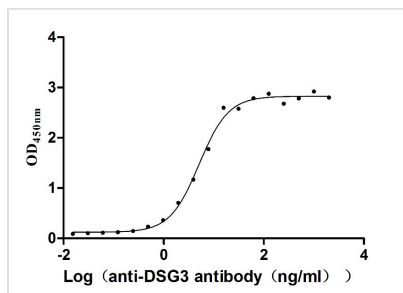
Image



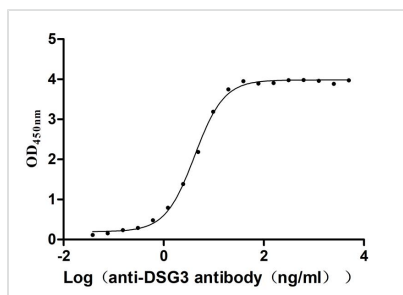
The Binding Activity of Human DSG3 with Anti-DSG3 recombinant antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized human DSG3 (CSB-MP007205HUc7) at 2 µg/mL can bind Anti-DSG3 recombinant antibody, the EC₅₀ is 10.16-12.87 ng/mL.



The Binding Activity of Mouse Dsg3 with Anti-DSG3 recombinant antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized Mouse Dsg3 (CSB-MP007205MOd7) at 5 µg/mL can bind Anti-DSG3 recombinant antibody, the EC₅₀ is 2.624-3.182 µg/mL.



The Binding Activity of Human DSG3 with Anti-DSG3 recombinant antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized Human DSG3 (CSB-BP007205HUc7) at 2 μ g/mL can bind Anti-DSG3 recombinant antibody, the EC_{50} is 4.552-5.720 ng/mL.



The Binding Activity of Human DSG3 with Anti-DSG3 recombinant antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized human DSG3 (CSB-MP007205HUc7) at 2 μ g/mL can bind Anti-DSG3 recombinant antibody. The EC_{50} is 3.915-4.410 ng/mL.

Description

The process of creating the DSG3 recombinant monoclonal antibody is complex and comprises several steps. Firstly, the DSG3 monoclonal antibody is obtained, and its gene sequence is determined. Then, a vector containing the DSG3 monoclonal antibody gene is produced and introduced into a host cell line for culture. A recombinant human DSG3 protein is utilized as an immunogen during DSG3 monoclonal antibody synthesis. The DSG3 recombinant monoclonal antibody is then purified via affinity chromatography and subjected to ELISA to evaluate its specificity. It reacts with human and mouse DSG3 proteins.

DSG3 protein is a transmembrane glycoprotein that plays a critical role in the formation and maintenance of desmosomes. Desmosomes are intercellular junctions that provide strong adhesive interactions between adjacent epithelial cells, which is important for the integrity and strength of tissues. DSG3 is specifically expressed in stratified squamous epithelia and is found predominantly in the upper layers of the epidermis, oral mucosa, and hair follicles. Mutations in the DSG3 gene have been associated with various autoimmune diseases, including pemphigus vulgaris, in which the immune system mistakenly attacks and damages desmosomes, leading to blistering and erosions of the skin and mucous membranes.