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## DSG2 Recombinant Monoclonal Antibody

Product Code	CSB-RA622752MA1HU	
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.	
Uniprot No.	Q14126	
Immunogen	Recombinant Human DSG2 protein	
Species Reactivity	Human	
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	hlgG1	
Clonality	Monoclonal	
Product Type	Recombinant Antibody	
Immunogen Species	Homo sapiens (Human)	
Research Area	Cancer?Cardiovascular;Signal transduction	
Gene Names	DSG2	
Clone No.	22H6	
Image	57	The Binding Activity of DSG2 with anti-DSG2 antibody



Activity: Measured by its binding ability in a

functional ELISA. Immobilized Human DSG2 (CSB-MP622752HU) at 2 µg/mL can bind Anti-DSG2 recombinant antibody?the EC<sub>50</sub> is 20.26-38.00 ng/mL.

## Description

The generation of the DSG2 recombinant monoclonal antibody involved the incorporation of DSG2 antibody genes into plasmid vectors. These engineered plasmid vectors were subsequently introduced into suitable host cells using exogenous protein expression techniques to facilitate antibody production. After that, the DSG2 recombinant monoclonal antibody underwent a purification process via affinity chromatography. Rigorous validation for ELISA suitability of this antibody was performed. In a functional ELISA assay, it was established that the DSG2 recombinant monoclonal antibody exhibited robust binding affinity to the human DSG2 protein (CSB-MP622752HU) at a concentration of 2  $\mu$ g/mL, with an EC<sub>50</sub> falling within the range of 20.26 to 38.00 ng/mL.

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The main function of the DSG2 protein is to mediate cell-cell adhesion by forming desmosomes, thereby contributing to tissue integrity and stability in various tissues, including the skin and the heart. Dysregulation of DSG2 can have significant implications for tissue function and may be associated with certain diseases such as pemphigus vulgaris and arrhythmogenic cardiomyopathy.