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Anti-CLDN6 Reference Antibody (IMAB027)

Recombinant Antibody
Catalog # APR10143

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P56747
Reactivity	Human
Clonality	Monoclonal
Isotype	Human IgG1
Calculated MW	23292

Additional Information

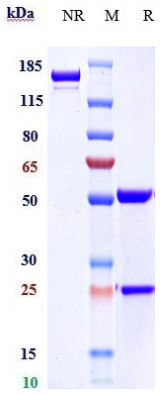
Target/Specificity	CLDN6
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

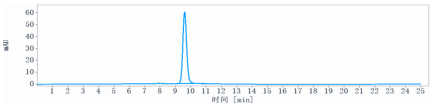
Protein Information

Name	CLDN6
Function	Plays a major role in tight junction-specific obliteration of the intercellular space.
Cellular Location	Cell junction, tight junction {ECO:0000250|UniProtKB:Q9Z262}. Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the liver, in peripheral blood mononuclear cells and hepatocarcinoma cell lines

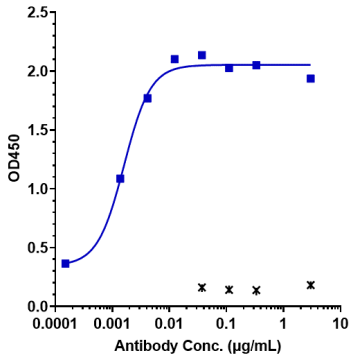
Images

Anti- Human CLDN6(IMAB027) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

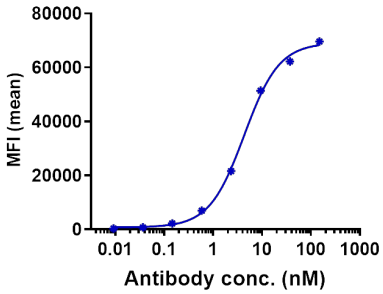




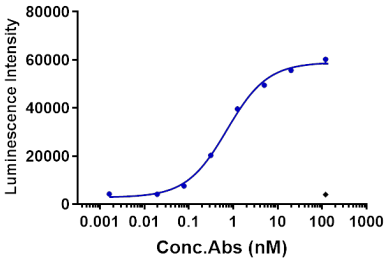
The purity of Anti- Human CLDN6(IMAB027)is 98.41%, determined by SEC-HPLC.



Immobilized human CLDN6 (VLP, 8 μg/mL) can bind to Anti- Human CLDN6(IMAB027) with an EC50 of 0.001599 ug/mL.

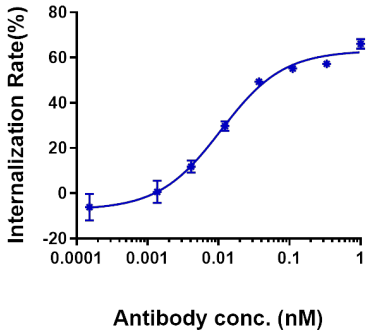


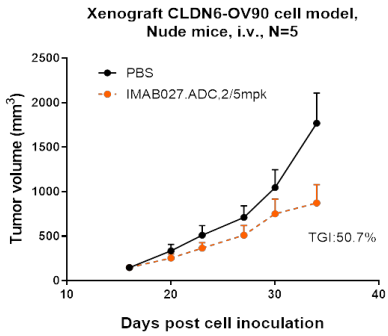
Human CLDN6-expressing CHO cells were stained with Anti- Human CLDN6(IMAB027), with isotype and secondary-only controls. Flow analysis showed specific binding of the antibody, with an EC50 of 4.342 nM.



The ADCC activity of the anti- human CLDN6(IMAB027)was evaluated using a human CLDN6-expressing luciferase reporter Jurkat cell line. Results demonstrated dose-dependent induction of ADCC, with a maximum fold increase of approximately 14.16 relative to baseline.

The internalization rate of the anti- human CLDN6(IMAB027)in human CLDN6 HEK293 cells increased in an antibody concentration-dependent manner, reaching 60% at 1 nM.





Anti- Human CLDN6(IMAB027) inhibited the tumor growth of OV90 on Balb/c nude mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 50.7% at 5 mpk at D34.

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