

Product datasheet for **CF500843**

Claudin 5 (CLDN5) Mouse Monoclonal Antibody [Clone ID: OTI1G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G4
Applications:	FC, IF
Recommended Dilution:	IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CLDN5(NP_003268) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23 kDa
Gene Name:	Homo sapiens claudin 5 (CLDN5), transcript variant 2, mRNA.
Database Link:	NP_003268 Entrez Gene 12741 Mouse Entrez Gene 65131 Rat Entrez Gene 7122 Human O00501



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Background:

This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Synonyms:

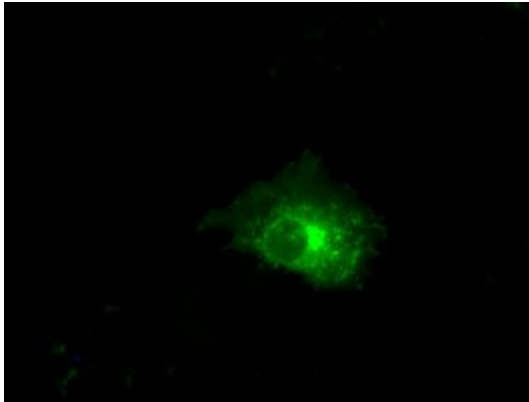
AWAL; BEC1; CPETRL1; TMVCF

Protein Families:

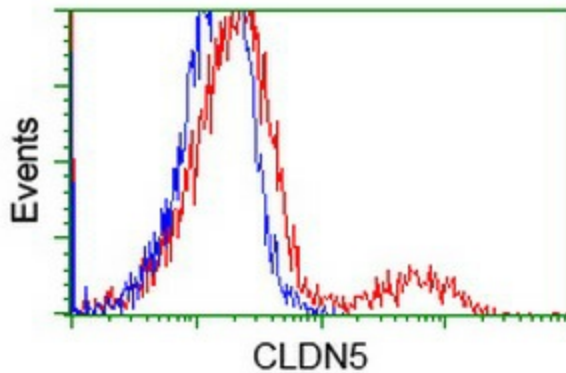
Transmembrane

Protein Pathways:

Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

Product images:

Anti-CLDN5 mouse monoclonal antibody ([TA500843]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CLDN5 ([RC207122]).



HEK293T cells transfected with either [RC207122] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-CLDN5 antibody ([TA500843]), and then analyzed by flow cytometry.