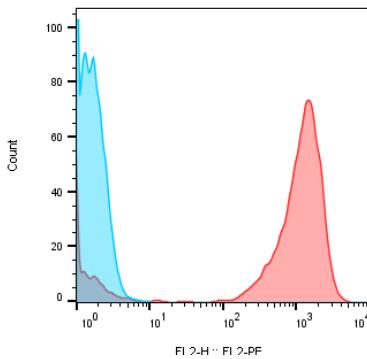


SPECIFICATIONS

Catalog Number	C1001
Cell Line Name	Human CLDN18.2-CHO-S Stable Pool
Accession Number	NP_001002026.1
Host Cell	Suspension CHO
Quantity	Two vials of frozen cells (20x10 ⁶ per vial)
Culture Medium	50% CD-CHO (ThermoFisher#10743-029), 50% Ex-Cell CHO 5 medium (Sigma#C0363), supplemented with 8mM L-Glutamine, 1xHT(ThermoFisher #11067-030), 1x Penicillin-Streptomycin, and 10µg/ml puromycin
Freezing Medium	90% FBS and 10% DMSO
Storage	Liquid nitrogen

DATA

Detection of human CLDN18.2 expression on human CLDN18.2-CHO Stable cells using a mouse monoclonal antibody specific for human CLDN18.2 (in red) compared to a negative control (in blue).


BACKGROUND

Claudin-18 (CLDN18) is a member of a large family of four-span transmembrane proteins called Claudins. These proteins are the essential components of the mammalian tight junctions (TJs) in epithelial cells. Claudin-18 has two splice variants, 18.1 and 18.2. While CLDN18.1 is specifically expressed in the lung tissue, CLDN18.2 expression in normal tissue is more restricted and is only detected in small patches of stomach mucosal. CLDN18.2 expression is elevated in many types of epithelial cancers including stomach, esophagus, pancreatic and ovarian cancers. The expression of CLDN18.2 is not only detected in primary tumors, but also in the metastatic sites. Therefore, CLDN18.2 is an ideal target for monoclonal antibody-based cancer therapies.

References

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