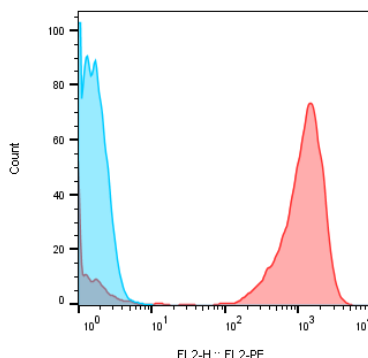


## SPECIFICATIONS

<b>Catalog Number</b>	C1001
<b>Cell Line Name</b>	Human CLDN18.2-CHO-S Stable Pool
<b>Accession Number</b>	NP_001002026.1
<b>Host Cell</b>	Suspension CHO
<b>Quantity</b>	Two vials of frozen cells (20x10 <sup>6</sup> per vial)
<b>Culture Medium</b>	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
<b>Freezing Medium</b>	90% FBS and 10% DMSO
<b>Storage</b>	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.

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- Niimi T. *et al.* Claudin-18, a Novel Downstream Target Gene for the T/EBP/NKX2.1 Homeodomain Transcription Factor, Encodes Lung- and Stomach-Specific Isoforms through Alternative Splicing. *Mol. Cell. Biol.* **21(21)**: 7380-7390. 2001.

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