

Claudin18.2/ KATOIII

CBP74132

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I. Background

Claudins (CLDNs) are a family of proteins that form tight junctions and maintain the polarity of epithelial and endothelial cells. CLDN18 is specifically expressed in the stomach and lung. Of the two CLDN18 isoform transcripts produced by alternative splicing, CLDN18.2 is a highly selective gastric lineage marker that determines the gastric phenotype in a neoplastic condition, whereas CLDN18.1 is lung specific. CLDN18.2 is a highly selective gastric lineage antigen expressed exclusively on short-lived differentiated gastric epithelial cells where it has only limited accessibility to antibody drugs.^{14,15} CLDN18.2 is maintained during the course of malignant transformation and thus frequently displayed on the surface of human gastric cancer cells.

II. Introduction

Host Cell: KATOIII

Expressed gene: Claudin18.2

Stability: 32 passages (in-house test, that not means the cell line will be instable beyond the passages we tested.)



Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+2ug/ml puromycin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s): Binding Assay,FACS

III. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Stomach; derived from metastatic site: pleural effusion and supraclavicular and axillary lymph nodes and Douglas cul-de-sac

Disease: Gastric carcinoma





Morphology: Spherical

Growth Properties: mixed, adherent and suspension

IV. Representative Data

1. Claudin18.2/ KATOIII



| | Population Name | Mean , FL4-A | Catalog ID |
|---|----------------------|--------------|------------|
|  | KATOIII-CLND18.2-C14 | 1.92E4 | CBP74132-L |
|  | KATOIII-CLND18.2-C10 | 1.40E5 | CBP74132-H |
|  | KATOIII-CLND18.2-C17 | 7.38E4 | CBP74132-M |
|  | KATOIII | 578 | |

