



Rabbit Anti-Human Claudin 18 monoclonal antibody, clone 45I25M26 (CABT-L1246)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with chimpanzee, equine, rat and Rhesus monkey based on sequence homology.
Target	CLDN18
Immunogen	A peptide corresponding to amino acids 224-237 of P56856.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	45I25M26
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	ICC, IHC-P, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Size	100 µg
Buffer	PBS
Preservative	0.09% Sodium Azide

BACKGROUND

Introduction

Claudin-18 is a tight junction protein expressed as lung-and stomach-specific isoforms which are generated by alternative splicing of the claudin-18 gene. The lung-specific form is a downstream target gene regulated by the T/EBP/NKX2.1 transcription factor. A splice variant lacking the C-terminal cytoplasmic domain also exists in mouse, but has not been confirmed in human. Human claudin-18 demonstrates 88% amino acid sequence identity to the mouse protein. Immunohistochemical studies have demonstrated complete membrane localization of claudin-18 in lung and stomach epithelial cells, while electron microscopy has shown that it is concentrated in the cell-cell borders of these cells. These features suggest a potentially important role for claudin-18 in the structure and function of tight junctions in the lung and stomach. Claudin-18 expression has also been reported in the inner ear. Because of its highly restricted expression pattern in normal tissues and frequent activation in numerous human cancers, claudin-18 may represent an important target for antibody therapy.

Keywords

CLDN18;claudin 18;SFTA5;SFTPJ;claudin-18;surfactant associated 5;surfactant associated protein J;surfactant, pulmonary associated protein J
