

## Anti-Claudin-18 Antibody (2Q277)

## Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human, Has cross-reactivity in IHC with human Claudin 18.1 and Claudin 18.2
Conjugation:	Unconjugated
Clone:	2Q277
Purification:	Protein A

## Applications

Verified Activity:	1. Immunochemical staining of human Claudin 18 in human stomach with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.
	2. Immunochemical staining of human Claudin 18 in human gastric cancer with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.
	3. Immunochemical staining of human Claudin 18 in human lung with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.
Application:	IHC-P
Recommended	IHC-P: 1:1000-1:5000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: C-terminus human Claudin 18
Antigen Species:	Human
Synonyms:	CLDN 18;SFTPJ;claudin 18;SFTA5;CLDN18

## Research Background

Claudins family member Claudin18 (CLDN18) is a four-pass transmembrane protein with two extracellular loops and cytoplasmic N- and C-tails found in tight junctions. CLDN18 modulates paracellular permeability, polarity, and signaling. CLDN18 deficiency has been associated with atrophic gastritis, spasmolytic polypeptide-expressing metaplasia (SPEM), and asthma. Lung-specific CLDN18.1 modulates alveolar epithelial type II (AT2) cell proliferation and organ size. Restoration of CLDN18.1 expression in human lung cancer cells has been shown to suppress proliferation, inhibiting the IGF-1R/AKT axes. Not expressed in other healthy tissues, gastric mucosa-specific isoform CLDN18.2 expression manifests in primary gastric cancers. CLDN18.2 at the surface of epithelial tumor cells is a target in antibody and CAR-therapies currently in development.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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