# Anti-CLDN7 antibody

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| **Cat. No.** | ml260406 |
| **Package** | 25 µl/100 µl/200 µl |
| **Storage** | -20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol |

## Product overview

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| **Description** | Anti-CLDN7 rabbit polyclonal antibody |
| **Applications** | ELISA, WB, IHC |
| **Immunogen** | Synthetic peptide of human CLDN7 |
| **Reactivity** | Human, Mouse, Rat |
| **Content** | 0.3 mg/ml |
| **Host species** | Rabbit |
| **Ig class** | Immunogen-specific rabbit IgG |
| **Purification** | Antigen affinity purification |

## Target information

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| **Symbol** | CLDN7 |
| **Full name** | claudin 7 |

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| **Synonyms** | CLDN-7, CEPTRL2, CPETRL2, Hs.84359, claudin-1 |
| **Swissprot** | O95471 |

**Target Background**

This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found.
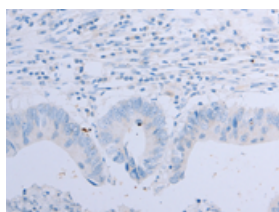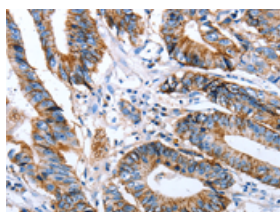
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm, Cell membrane

Positive control: Human colon cancer
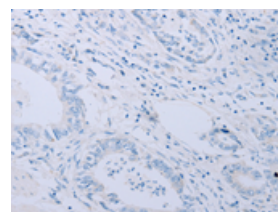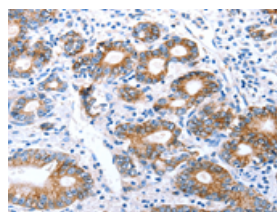
Recommended dilution: 50-150



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml260406(CLDN7 Antibody) at dilution 1/50, on the right is treated with synthetic peptide. (Original magnification: ×200)

Predicted cell location: Cytoplasm, Cell membrane

Positive control: Human stomach cancer

Recommended dilution: 50-150



The image on the left is immunohistochemistry of paraffin-embedded Human stomach cancer tissue using ml260406(CLDN7 Antibody) at dilution 1/50, on the right is treated with synthetic peptide. (Original magnification: ×200)

### Western blotting

Predicted band size:23 kDa

Positive control:Human liver cancer tissue
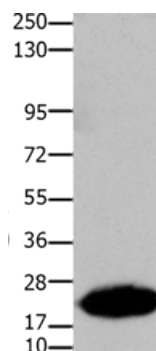
Recommended dilution: 1000-3000

Gel: 10%SDS-PAGE

Lysate: 30 µg

Lane: Human liver cancer tissue

Primary antibody: ml260406(CLDN7 Antibody) at dilution 1/1050

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 40 seconds

**ELISA**

Recommended dilution: 1000-10000