

CLDN4 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50377

Clone# BP6344

Predicted Molecular Wt: 22kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: O14493

Background:

Claudin-4 belongs to the 20-member family of claudins, transmembrane cellular adhesion proteins localized at epithelial and endothelial tight junctions. Claudins demonstrate distinct, tissue-specific expression patterns, and are essential components of tight junction charge-specific channels that regulate paracellular ion flux.

CLDN4 is highly and specifically expressed in epithelial cells of the gastrointestinal, urinary, respiratory, reproductive systems and skin to maintain tight junction and barrier functions.

CLDN4 is widely used in clinical pathological diagnosis as a sensitive and specific epithelial marker, mainly for distinguishing epithelial tumors from non-epithelial neoplasms, identifying the origin of metastatic carcinomas, assisting in the subclassification of ovarian and other gynecologic tumors, evaluating tumor invasiveness and prognosis, and serving as a potential therapeutic target and predictive indicator in targeted therapy.

Subcellular location:

Membrane/Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human CLDN4 aa 139-209

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

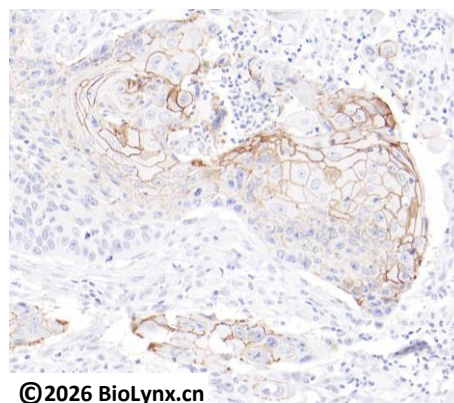
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Fengli Ye, et al. (2025) Frontiers in medicine 12:1636860
- Jingyi Hu, et al. (2025) Chinese medicine 20:119



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human esophagus cancer labelling CLDN4 with BP6344.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.