

Claudin-5 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50356

Clone# BP6324

Predicted Molecular Wt: 23kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: O00501

Background:

Claudin-5 is a 23 kDa transmembrane protein belonging to the claudin family. Its primary biological function is to form a selective paracellular barrier that precisely regulates the permeability of ions and small molecules between cells, thereby maintaining the strict homeostasis of the central nervous system by preventing the free passage of pathogens and harmful substances while allowing essential nutrients like oxygen and glucose to pass.

Claudin-5 is expressed in the endothelial and epithelial cells of various organs, including the lung, kidney, liver, skin and gut.

Claudin-5 holds significant clinical and pathological relevance primarily as a biomarker for assessing blood-brain barrier (BBB) integrity in neurological disorders and as a prognostic indicator in certain cancers.

Subcellular location:

Membrane

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:

Synthetic peptide. This information is proprietary to BioLynx.

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:

- Greene, C. et al. (2019) Fluids Barriers CNS 16, 3.
- Jia, W. et al. (2014) Mol Med Rep 9, 779-85.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon labelling Claudin-5 with BP6324.

Product QC'd by: 

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