

Claudin-6 Protein-VLP, Mouse, Recombinant (His & Flag)

General Information

Synonyms:	Cldn6
Protein Construction:	A DNA sequence encoding the Mouse CLDN6 (Full Length) (Q9Z262) (Met1-Val219) was expressed, with a polyhistidine tag followed by a Flag tag at the C-terminus.
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9Z262
Molecular Weight:	25.76 kDa (predicted)

QC Testing

Biological Activity:	Immobilized Recombinant Mouse Claudin-6 Protein (VLP, Full-Length, His-Flag Tag) at 5 µg/mL (100 µL/well) can bind Anti-Claudin-6 Monoclonal Antibody, Human IgG1, the EC50 is 1-5 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

Protein Background

Claudin-6 (CLDN6) belongs to the claudins family and is a transmembrane protein found in tight junctions with two extracellular loops and intracellular N and C tails. CLDN6 modulates the ion- and charge-specific permeability of the paracellular pathway in most epithelial tissues. It regulates the paracellular flux of cations in the kidney through forming heterotypic strands with other claudins and has a role in maintaining the lung epithelial barrier function. The CLDN6 gene is adjacent to another family member, CLDN9, on chromosome 16. Certain CLDN6-positive cancers, encompassing ovarian, endometrial, and testicular malignancies, have been shown to have their proliferation and invasiveness suppressed upon CLDN6 silencing.

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