



Recombinant Protein Technical Manual
Recombinant Human CLDN11/Claudin1 Protein (Fc
Tag)
RPES1694

Product Data:

Product SKU: RPES1694

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: O75508

Protein Information:

Molecular Mass: 33.2 kDa

AP Molecular Mass: 37 kDa

Tag: N-Fc

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: OSP;OTM

Immunogen Information:

Sequence: Val23-Arg82

Background:

Claudin1, also known as CLDN11, belongs to the group of claudins. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands function 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. Claudin1 is a tight junction associated protein and is a major component of central nervous system (CNS) myelin that is necessary for normal CNS function. Human blood-testis barrier disruption is related to a dysfunction of CLDN11 gene. It plays an important role in regulating proliferation and migration of oligodendrocytes.