

Recombinant Human CLDN11, GST-tagged

Cat. No. CLDN11-11285H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLDN11 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	26-207a.a.
Description	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. The protein encoded by this gene is a major component of central nervous system (CNS) myelin and plays an important role in regulating proliferation and migration of oligodendrocytes. Mouse studies showed that the gene deficiency results in deafness and loss of the Sertoli cell epithelial phenotype in the testis. This protein is a tight junction protein at the human blood-testis barrier (BTB), and the BTB disruption is related to a dysfunction of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name [CLDN11 claudin 11 \[Homo sapiens \]](#)

Official Symbol CLDN11

Synonyms CLDN11; claudin 11; OSP; OTM; claudin-11; oligodendrocyte-specific protein; oligodendrocyte transmembrane protein

Gene ID [5010](#)

mRNA Refseq [NM_005602](#)

Protein Refseq [NP_005593](#)

MIM [601326](#)

UniProt ID [O75508](#)

Chromosome Location 3q26.2-q26.3

Pathway Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem

Function identical protein binding; structural molecule activity

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