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℃. Avoid repeated freezing and thawing cycles.

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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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