Data Sheet (Cat.No.TMPY-02292)

TargetMol

IGSF11 Protein, Human, Recombinant (His)

General Information

Synonyms:	CT119;immunoglobulin superfamily, member 11;BT-IgSF;Igsf13;CXADRL1;VSIG3
Protein Construction:	A DNA sequence encoding the extracellular domain of human IGSF11 (AAH34411.1) (Met 1-Gly 240) was fused with a polyhistidine tag at the C-terminus Predicted N terminal: Glu 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH34411.1
Molecular Weight:	24.6 kDa (predicted); 36 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 85 % as determined by SDS-PAGE. ≥ 85 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Immunoglobulin superfamily member 11(IGSF11) is expressed on the plasma membrane in the testis and brain. These IGSF proteins undergo final modifications during capacitation and/or the acrosome reaction. IGSF proteins share significant homology with endothelial cell-selective adhesion molecule and coxsackievirus and adenovirus receptor, which mediates cell attachment and homotypic intercellular interactions. In clinical, the IGSF11 has been reported to overexpressed in colorectal cancers and hepatocellular carcinomas, as well as intestinal-type gastric

cancers, compared to their corresponding non-cancerous tissues. The IGSF11 has also been found expressed abundantly in the testis and ovary and the IGSF11 can be used as a candidate of cancer-testis antigen.

Reference

Toshimori K,et al.(2006) The involvement of immunoglobulin superfamily proteins in spermatogenesis and sperm-egg interaction. Reproductive Medicine and Biology. 5(2): 87-93.

Coyne CB,et al.(2005) CAR: A virus receptor within the tight junction. Advanced Drug Delivery Reviews. 57(6) : 869-82.

Watanabe T,et al.(2005) Identification of immunoglobulin superfamily 11 (IGSF11) as a novel target for cancer immunotherapy of gastrointestinal and hepatocellular carcinomas. Cancer Science. 96(8) :498-506.

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