Active Recombinant Human IGSF11 protein, Fc/Avi-tagged, Biotinylated

Cat. No. IGSF11-051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human IGSF11(Leu23-Gly245) protein, fused to Fc/Avi tag at the C-terminus, was expressed in CHO cells .
Species	Human
Source	CHO
ProteinLength	Leu23-Gly245
Description	IGSF11, also known as BT-IgSF, and CLMP, is an approximately 50 kDa transmembrane adhesion protein (1). Mature human VSIG3 consists of a 219 amino acid (aa) extracellular domain (ECD) that contains two tandem Ig-like domains, a 21 aa transmembrane segment, and a 169 aa cytoplasmic domain (2). Within the ECD, human VSIG3 shares 95% aa sequence identity with mouse and rat VSIG3. Alternative splicing generates additional isoforms with a substituted signal peptide that may also have a deletion in the second Ig-like domain (3). VSIG3 is expressed on epithelial and endothelial cells, neurons and glial cells, and platelets (2-4). It localizes to epithelial tight junctions and mediates homophilic in trans cell adhesion (3-5). VSIG3 also localizes to neuronal postsynaptic densisties where it recruits the GluA1 and GluA2 subunits of AMPA receptors and supports excitatory synaptic transmission (6). The short isoform can be up-regulated in gastric cancer (7). In zebrafish, VSIG3 is expressed in melanophores and their precursors and plays a role in the development and patterning of pigment cells (8).

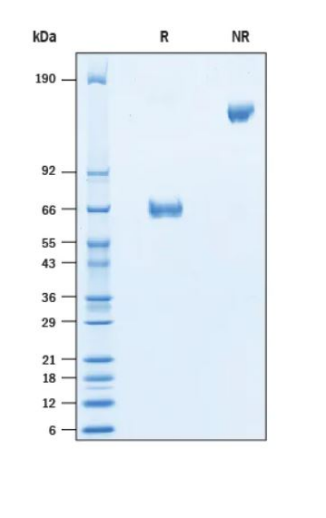
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Predicted N Terminal	Leu23
Form	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human VISTA Fc Chimera Protein is immobilized at 2.5 μg/mL (100 μL/well), the concentration of Biotinylated Recombinant Human VSIG3 Fc Chimera Avi-tag that produces 50% of the optimal binding response is found to be approximately 3-15 μg/mL.
Molecular Mass	62-69 kDa, under reducing conditions
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 μg/mL in PBS.
Conjugation	Biotin

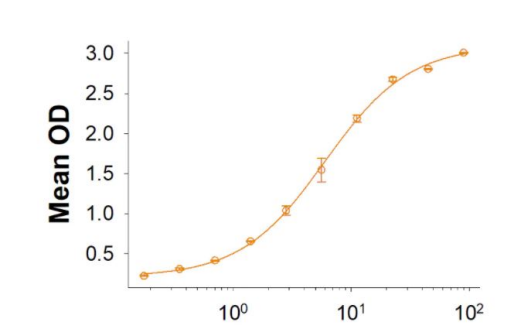
GENE INFORMATION

Gene Name	IGSF11 immunoglobulin superfamily, member 11 [Homo sapiens]

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

Official Symbol	IGSF11
Synonyms	IGSF11; immunoglobulin superfamily, member 11; immunoglobulin superfamily member 11; BT IgSF; cancer/testis antigen 119; CT119; Igsf13; MGC35227; VSIG3; CXADR like 1; V-set and immunoglobulin domain containing 3; V-set and immunoglobulin domain-containing protein 3; brain and testis-specific immunoglobin superfamily protein; brain and testis-specific immunoglobulin superfamily protein; BT-IgSF; CXADRL1;
Gene ID	152404
mRNA Refseq	NM_001015887
Protein Refseq	NP_001015887
MIM	608351
UniProt ID	Q5DX21
SDS-PAGE	

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

	2 μg/lane Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining.
Binding Activity	

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