SELPLG Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PSGL-1/CD162 (SELPLG), Cell Lysate
Full Product Name	Mouse PSGL-1/CD162 HEK293 Overexpression Lysate
Product Gene Name	SELPLG cell lysate
Product Synonym Names	Mouse PSGL-1/CD162/SELPLG HEK293 Cell Lysate (WB positive control); selectin P ligand; Mouse CD162 Overexpression Lysate; Mouse Psgl-1 Overexpression Lysate; Mouse Psgl1 Overexpression Lysate; Mouse Selp1 Overexpression Lysate; Mouse Selpl Overexpression Lysate
Sequence	Met1-Cys30 7
Host	HEK293 Cells
Form/Format	1x Sample Buffer (1x modified RIPA buffer+1x SDS loading buffer). Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.
Preparation and Storage	Store at 4 degree C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80 degree C for up to twelve months. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt.
Molecular Weight	The secreted recombinant mouse SELPLG/Fc is a disulfide-linked homodimer. The reduced monomer comprises 531 amino acids and has a calculated molecular mass of 57.4kDa. As a result of glycosylation, the apparent molecular mass of rmSELPLG/Fc monomer is
Sequence Positions	531aa
3D Structure	ModBase 3D Structure for Q62170
Species	Mouse
Recommend Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.**2. Re-dissolve the pellet using 200uL pure water and boil for 2-5 min.**
Sequence Construction	A DNA sequence encoding the extracellular domain of mouse SELPLG (Q62170) (Met 1-Cys 307) was fused with the Fc region of human IgG1 at the C-terminus.
Preparation Method	Cell lysate was prepared by homogenization of the over-expressed cells in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Applications Tested/Suitable for SELPLG cell lysate	Western Blot (WB)
Application Notes for SELPLG cell lysate	WB: Use at an assay dependent dilution.

Related Product Information for SELPLG cell lysate	P-selectin glycoprotein ligand-1 (PSGL-1), also known as SELPLG or CD162, is the high affinity ounter-receptor for P-selectin on expressed on activated endothelial cells and platelets. PSGL-1 is a mucin-type glycoprotein, expressed on leukocytes and platelets as a homodimer of two disulfide-linked subunits of ~12 kD. As cell adhesion molecules, multiple studies have shown that PSGL-1/ P-selectin interaction is required for the normal recruitment of leukocytes during inflammatory reactions, and also participates in hemostatic responses. PSGL-1 protein requires two distinct posttranslational modifications for the Ca2+-dependent recognition by the lectin domain of P-selectin, that is tyrosine sulfation and specific O-linked glycosylation (sialic acid and fucose). PSGL-1 can also bind to other two members of the selectin family, E-selectin (endothelial) and L-selectin (leukocyte), but binds best to P-selectin. This Mouse PSGL-1/CD162 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of PSGL-1/CD162 protein from the overexpression lysate was verified.
Product References and Citations for SELPLG cell lysate	1. Sako, D. et al., 1993, Cell. 75: 1179-1186. 2. Wilkins, P. P. et al., 1995, J. Biol. Chem. 270: 22677-22680. 3. Frenette, P. S. et al., 2000, J. Exp. Med. 191: 1413-1422. 4. Vandendries, E.R.et al., 2004, Thromb. Haemost. 92: 459-466.. 5. Pouyani, T. et al., 1995, Cell. 83: 333-343.
Other Notes	Small volumes of SELPLG cell lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SELPLG purchase	MBS8116861 is a cell lysate targeting SELPLG. Also known as Mouse PSGL-1/CD162 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SELPLG. It may not necessarily be applicable to this product.

UniProt Primary Accession #	Q62170
UniProt Protein Name	P-selectin glycoprotein ligand 1
UniProt Synonym Protein Names	Selectin P ligand; CD_antigen: CD162
Protein Family	P-selectin glycoprotein ligand
UniProt Gene Name	Selplg
UniProt Synonym Gene Names	Selp1; Selpl; PSGL-1
UniProt Comments for SELPLG	A SLe(x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E- and P-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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