CD162/PSGL-1 Protein, Mouse (HEK293)

Cat. No.:	HY-P77165
Synonyms:	P-selectin glycoprotein ligand 1; PSGL-1; Selectin P ligand; CD162; SELPLG
Species:	Mouse
Source:	HEK293
Accession:	Q62170 (M1-C307)
Gene ID:	20345
Molecular Weight:	Approximately 54.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD162, also known as P-selectin glycoprotein ligand-1 (PSGL-1), functions as an SLe(x)-type proteoglycan and plays a crucial role in the early stages of inflammation by mediating rapid leukocyte rolling over vascular surfaces through high-affinity, calcium-dependent interactions with E- and P-selectins. This interaction is pivotal for the initial capture of leukocytes. CD162 forms homodimers linked by disulfide bonds and interacts with P- and E-selectins through their lectin/EGF domains. For high-affinity binding to P-selectin, sialyl Lewis X glycan modification and tyrosine sulfation, likely on Tyr-54, are required. Dimerization appears dispensable for P-selectin binding. Additionally, CD162 interacts with sorting nexin 20 (SNX20) and mediates SYK activation downstream of P-selectin/SELP binding. Furthermore, CD162 interacts with moesin (MSN) and spleen tyrosine kinase (SYK), contributing to downstream signaling events. It also engages with HAVCR1, revealing its involvement in diverse cellular interactions.

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