

CD162/PSGL-1 Protein, Mouse (266a.a, HEK293, His)

Cat. No.:	HY-P700816
Synonyms:	CLA; PSGL-1; PSGL1; CD162; SELPLG; Selectin P ligand; Selp1; Selpl
Species:	Mouse
Source:	HEK293
Accession:	Q62170 (Q42-C307)
Gene ID:	20345
Molecular Weight:	68-108 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	<p>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.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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