

CD300a/LMIR1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700674
Synonyms:	IGSF12; IRp60; CLM-8; IRC1; CD300a; CLM8; LMIR1; MAIR-I; Mcipr1; NKRL; Pigr4
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A7N9CE79 (L18-Q178)
Gene ID:	/
Molecular Weight:	45-50 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	CD300a/LMIR1, an inhibitory receptor, potentially plays a role in diminishing cytolytic activity in natural killer (NK) cells and suppressing mast cell degranulation. Additionally, it acts as a negative regulator in Toll-like receptor (TLR) signaling mediated by MYD88, although not TRIF, by activating PTPN6. Upon tyrosine phosphorylation, CD300a/LMIR1 engages with PTN6/SHP-1 and PTPN11/SHP-2, as well as INPP5D, illustrating its multifaceted involvement in immune regulation and cellular responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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