

RP105/CD180 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77182
Synonyms:	CD180 antigen; Lymphocyte antigen 64; LY64
Species:	Mouse
Source:	HEK293
Accession:	Q62192 (M1-S626)
Gene ID:	17079
Molecular Weight:	Approximately 110 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m 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/ 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	The RP105/CD180 protein emerges as a crucial mediator in the innate immune response to bacterial lipopolysaccharide (LPS) within B-cells, potentially collaborating with MD-1 and TLR4 in this process. Its involvement leads to the activation of NF-kappa-B, underscoring its role in initiating immune signaling pathways. Additionally, RP105/CD180 is implicated in the life/death decision of B-cells, suggesting a regulatory function in cellular survival processes. Structurally, it forms an M-shaped tetramer consisting of two CD180-LY86 heterodimers, highlighting its complex architecture. Further exploration of the intricate interactions between RP105/CD180, MD-1, and TLR4, as well as its role in the survival dynamics of B-cells, could provide deeper insights into its significance in the immune response and cellular decision-making processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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