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CD180 Protein (His tag)



Overview

Quantity:	50 μg
Target:	CD180
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD180 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD180/RP105/LY64 Protein (His Tag)(Active)
Sequence:	Met 1-Gly 626
Characteristics:	A DNA sequence encoding the human CD180 (NP_005573.2) extracellular domain (Met 1-Gly 626) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human CD180 at 2 μ g/ml (100 μ l/well) can bind biotinylated mouse MD-1 with a linear ranger of 3.125-25 μ g/ml.

Target Details

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Target Details

Alternative Name:	CD180/RP105/LY64 (CD180 Products)
Background:	Background: The cluster of differentiation (CD) system is commonly used as cell markers in
	immunophynotyping. Different kinds of cells in the immune system can be identified through
	the surface CD molecules which associating with the immune function of the cell. There are
	more than 320 CD unique clusters and subclusters have been identified. Some of the CD
	molecules serve as receptors or ligands important to the cell through initiating a signal cascade
	which then alter the behavior of the cell. Some CD proteins do not take part in cell signal
	process but have other functions such as cell adhesion. CD180, also known as RP105, is a B-
	cell surface molecule belonging to the family of pathogen receptors, Toll-like receptors (TLR).
	CD180 has an extracellular leucine-rich repeats and a short cytoplasmic tail. CD180 / RP105
	interact with an extracellular molecule named MD1 and then together form the cell surface
	receptor complex RP105 / MD1 which induces B-cell activation in humans and mice, leading to
	proliferation and up-regulation of a costimulatory molecule, B7.2 / CD86. CD180 / RP105 also
	has a role in LPS response because B cells lacking RP105 show hyporesponsiveness to LPS.
	Synonym: LY64,Ly78,RP105
Molecular Weight:	69 kDa
NCBI Accession:	NP_005573
Pathways:	Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.