

Datasheet for ABIN7194714 **CD180 Protein (His tag)**

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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 µg/ml (100 µl/well) can bind biotinylated mouse MD-1 with a linear ranger of 3.125-25 µg/ml.

Target Details

Target:	CD180
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Target Details

Alternative Name: CD180/RP105/LY64 ([CD180 Products](#))

Background: The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. 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.