

CD180 / RP105 / LY64 recombinant protein

Recombinant Human CD180 / RP105 / LY64 Protein (His tag)

CATALOG # AAA173547	HOST Human Cells
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PRODUCT SYNONYMS

CD180 / RP105 / LY64; Recombinant Human CD180 / RP105 / LY64 Protein (His tag); LY64; Ly78; MGC126233; MGC126234; RP105; CD180 / RP105 / LY64 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 92 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence Length	661
Predicted N Terminal	Trp 24
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C

ADDITIONAL INFORMATION

Related Product Information for CD180 / RP105 / LY64 recombinant protein	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. Description: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	167555127
NCBI GeneID	4064
NCBI Accession #	NP_005573.2
NCBI GenBank Nucleotide #	NM_005582.2
UniProt Accession #	Q99467; Q32MM5; B2R7Z7
Molecular Weight	74,179 Da
NCBI Official Full Name	CD180 antigen

NCBI Official Synonym Full Names	CD180 molecule
NCBI Official Symbol	CD180
NCBI Official Synonym Symbols	LY64; Ly78; RP105
NCBI Protein Information	CD180 antigen
UniProt Protein Name	CD180 antigen
UniProt Gene Name	CD180
UniProt Synonym Gene Names	LY64; RP105

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cd180-recombinant-protein-human-cells/173547>