

Datasheet for ABIN2180688

**CD14 Protein (CD14) (AA 20-352) (Fc Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	CD14
Protein Characteristics:	AA 20-352
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD14 protein is labelled with Fc Tag.

## Product Details

Sequence:	AA 20-352
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 62.4 kDa. The protein migrates as 75-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	CD14
Alternative Name:	CD14 ( <a href="#">CD14 Products</a> )

## Target Details

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**Background:** Cluster of differentiation 14 (CD14), is a cell surface glycoprotein, and is a component of the innate immune system. CD14 is a myelomonocytic differentiation antigen preferentially expressed on monocytes, macrophages, and activated granulocytes. CD14 exists in two forms. Either it is anchored into the membrane by a glycosylphosphatidylinositol tail (mCD14) or it appears in a soluble form (sCD14). Soluble CD14 either appears after shedding of mCD14 (48 kDa) or is directly secreted from intracellular vesicles (56 kDa). CD14 acts as a co-receptor (along with the Toll-like receptor TLR 4 and MD-2) for the detection of bacterial lipopolysaccharide (LPS). CD14 can bind LPS only in the presence of lipopolysaccharide-binding protein (LBP). CD14 has been proposed to be involved in various biological processes, including transportation of other lipids, cell-cell interaction during different immune responses, as well as recognition of apoptotic cells. Although LPS is considered its main ligand, CD14 also recognizes other pathogen-associated molecular patterns. CD14+ cells are monocytes that can differentiate into a host of different cells. CD14 has been shown to interact with Lipopolysaccharide-binding protein.

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**Molecular Weight:** 62.2 kDa

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**NCBI Accession:** [NP\\_000582](#)

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**Pathways:** [TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

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**Buffer:** Tris with Glycine, Arginine and NaCl, pH 7.5

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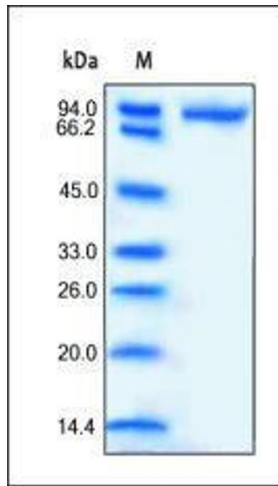
**Handling Advice:** Please avoid repeated freeze-thaw cycles.

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**Storage:** -20 °C

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**Storage Comment:** No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



#### SDS-PAGE

**Image 1.** Human CD14, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 97%.