

Datasheet for ABIN7505665 CD14 Protein (CD14) (AA 1-344) (His tag)



Overview

Quantity:	100 µg
Target:	CD14
Protein Characteristics:	AA 1-344
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD14 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Met 344
Characteristics:	A DNA sequence encoding the Human sCD14 protein (P08571) (Met1-Met344) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	CD14
Alternative Name:	CD14 (CD14 Products)
Background:	Abbreviation: CD14
	Target Synonym: Monocyte Differentiation Antigen CD14,Myeloid Cell-Specific Leucine-Rich
	Glycoprotein,CD14,soluble
	Background: The cluster of differentiation (CD) system is commonly used as cell markers in

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	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. Cluster of differentiation 14 (CD14) is a
	member of the CD system. It takes its name from its inclusion in the CD molecule surface
	marker proteins. CD14 exists in two forms: a form anchored into the membrane or a soluble
	form. CD14 was found expressed in macrophages, neutrophil granulocyte and dendritic cells.
	The major function is serve as a co-receptor (along with TLR4 and MD-2) for the bacterial
	lipopolysaccharide (LPS) and other pathogen-associated molecular patterns.
Molecular Weight:	Calculated MW: 37.73 kDa
	Observed MW: 45 kDa
UniProt:	P08571
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of
	Bacterial Origin, Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months

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