CD14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD14, Polyclonal Antibody
Full Product Name	Anti-CD14 Antibody, Rabbit Polyclonal
Product Gene Name	anti-CD14 antibody
Product Synonym Names	CD14 Antibody, Rabbit PAb, Antigen Affinity Purified; CD14 molecule; Anti-CD14 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Rat CD14
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	40,054 Da
3D Structure	ModBase 3D Structure for Q63691
Immunogen	Recombinant Rat CD14 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Rat CD14 (rR CD14). CD14 specific IgG was purified by Rat CD14 affinity chromatography.
Product Categories/Family for anti-CD14 antibody	NF-kB (NFkB) Pathway
Applications Tested/Suitable for anti-CD14 antibody	ELISA (EIA)
Application Notes for anti-CD14 antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-CD14 antibody	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 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 to serve as a co-receptor (along with TLR4 and MD-2) for the bacterial lipopolysaccharide (LPS) and other pathogen-associated molecular patterns.

Product References and Citations for anti-CD14 antibody	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.SD Wright, et al. (1990) CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. Science. 249 (4975): 1431-3.
Other Notes	Small volumes of anti-CD14 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD14 purchase	MBS8112929 is an antibody targeting CD14. Also known as Anti-CD14 Antibody, Rabbit Polyclonal. Reactive in Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD14. It may not necessarily be applicable to this product.

NCBI GI #	11120688
NCBI GeneID	60350
NCBI Accession #	NP_068512.1
UniProt Primary Accession #	Q63691
UniProt Secondary Accession #	Q6GT04
UniProt Related Accession #	Q63691
GenBank Nucleotide #	NM_021744.1
NCBI Official Full Name	monocyte differentiation antigen CD14
NCBI Official Synonym Full Names	CD14 molecule
NCBI Official Symbol	Cd14
UniProt Protein Name	Monocyte differentiation antigen CD14
UniProt Synonym Protein Names	Myeloid cell-specific leucine-rich glycoprotein; CD_antigen: CD14
Protein Family	Monocyte differentiation antigen
UniProt Gene Name	Cd14
NCBI Protein Information	monocyte differentiation antigen CD14
NCBI Summary for CD14	component of the lipopolysaccharide receptor complex; mediates LPS-induced neuroinflammation and inflammatory response [RGD, Feb 2006]
UniProt Comments for CD14	Coreceptor for bacterial lipopolysaccharide. In concert with LBP, binds to monomeric lipopolysaccharide and delivers it to the LY96/TLR4 complex, thereby mediating the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Acts as a coreceptor for TLR2:TLR6 heterodimer in response to diacylated lipopeptides and for TLR2:TLR1 heterodimer in response to triacylated lipopeptides, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Binds electronegative LDL (LDL-) and mediates the cytokine release induced by LDL- ().
Research Articles on CD14	**1.** CD 14 mRNA expression increased significantly after five days of bile duct ligation in liver, lung, spleen, and ileum.
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