Cluster of Differentation 14 (CD14) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cluster of Differentation 14 (CD14), ELISA Kit
Full Product Name	Human Cluster of Differentation 14 (CD14) ELISA Kit
Product Gene Name	CD14 elisa kit
Species Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<50pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	53kDa
Chromosome Location	Chromosome: 5; NC_000005.9 (140011313..140013286, complement). Location: 5q31.1
OMIM	158120
3D Structure	ModBase 3D Structure for P08571
Detection Target	Cluster of Differentation 14 (CD14)
Immunogen Sequence	369
Related Product Information for CD14 elisa kit	This Human Cluster of Differentation 14 (CD14) ELISA Kit is intended for quantitative detection of human CD14 in cell culture supernates, serum and plasma (heparin, EDTA). Strip well format. Reagents for up to 96 tests. This human CD14 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD14 has been precoated onto 96-well plates. Standards (Expression system for standard: CHO, Immunogen sequence: T20-C352) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD14 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Fibronectin amount of sample captured in plate. The capture antibody is A monoclonal antibody from mouse, the detection antibody is a biotinylated detection polyclonal antibody from goat. Expression system for standard: CD14, Cluster of differentiation 14, ingle-copy gene encoding 2 protein forms: a 50- to 55-kD glycosylphosphatidylinositol-anchored membrane protein (mCD14) and a monocyte or liver-derived soluble serum protein (sCD14) that lacks the anchor. By in situ hybridization and study of somatic cell hybrid DNA that the gene is located at bands 5q23-q31. 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). Although LPS is considered its main ligand, CD14 also recognizes other pathogen-associated molecular patterns.
Other Notes	Small volumes of CD14 elisa kit 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	MBS138994 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cluster of Differentation 14 (CD14) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CD14. The ELISA analytical biochemical technique of the MBS138994 kit is based on CD14 antibody-CD14 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD14 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD14. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

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

NCBI GI #	4557417
NCBI GeneID	929
NCBI Accession #	NP_000582.1
UniProt Primary Accession #	P08571
UniProt Secondary Accession #	Q53XT5; Q96FR6; Q96L99; Q9UNS3
UniProt Related Accession #	P08571
GenBank Nucleotide #	NM_000591.3
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
Protein Family	Monocyte differentiation antigen
UniProt Gene Name	CD14
UniProt Entry Name	CD14_HUMAN
NCBI Protein Information	monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein
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