

Mouse CD14 ELISA Kit | CD14 elisa kit

Mouse CD14 PicoKine ELISA Kit

CATALOG #
AAA45807

REACTIVITY
Mouse

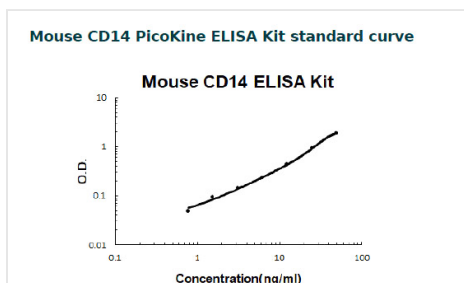
PRODUCT SYNONYMS

CD14; Mouse CD14 PicoKine ELISA Kit; Monocyte differentiation antigen CD14; CD14 molecule; CD 14; CD14 antigen; Myeloid cell-specific leucine-rich glycoprotein; CD14 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Cd14
Sequence Length	366
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	0.78 ng/ml - 50 ng/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD14 elisa kit	Principle of the Assay: The Picokine™ Mouse Cd14 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Cd14 with a 96-well strip plate that is pre-coated with antibody specific for Cd14. The detection antibody is a biotinylated antibody specific for Cd14. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Cd14 with immunogen: Expression system for standard: NS0; Immunogen sequence: A18-P345. The kit is analytically validated with ready-to-use reagents. To measure Mouse Cd14, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Cd14 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Cd14 in the sample. Background/Introduction: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115957
NCBI GeneID	12475
UniProt Accession #	P10810
Molecular Weight	39,204 Da
NCBI Official Full Name	Monocyte differentiation antigen CD14
NCBI Official Synonym Full Names	CD14 antigen
NCBI Official Symbol	Cd14
NCBI Protein Information	monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein
UniProt Protein Name	Monocyte differentiation antigen CD14
UniProt Gene Name	Cd14
UniProt Entry Name	CD14_MOUSE

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.