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CD14 ELISA Kit





Overview

Quantity:	1 kit
Torget	CD14
Target:	CD14
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: CD 14, CD14 antigen, CD14 Molecule, Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein

Background: 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.

Gene Name: CD14

Production: Natural and recombinant mouse CD14. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A18-P345

Target Details

Target:	CD14
Alternative Name:	CD14 (CD14 Products)
Gene ID:	12475
NCBI Accession:	NP_033971
UniProt:	P10810
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades

Application Details

0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,

312pg/mL, 156pg/mL mouse CD14 standard solutions into the precoated 96-well plate. Add

0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to

each empty well. It is recommended that each mouse CD14 standard solution and each sample

be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 156pg/mL-10000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

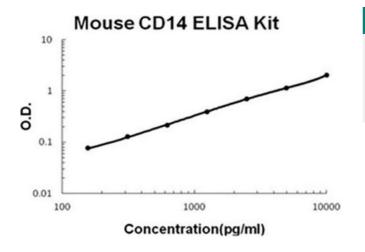
Storage: RT,4 °C,-20 °C

Handling

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Mouse CD14 Accusignal ELISA Kit Mouse CD14 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.