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CD14 Mouse

Catalog #:PRPS-544

For research use only.

Description: The CD14 is produced from mouse CD14 transfected CHO-cells in serum free medium. Before transfection the complete mouse CD14-cDNA was amplified by PCR and cloned into expression vector p-POL-DHFR). The recombinant mouse CD-14 was purified by His-tag and controlled by SDS page.The myeloid differentiation antigen CD14 acts as the major receptor for bacterial LPS. The dominant form of the recombinant wildtype CD14 is the 50 kDa protein.

Synonyms: Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein, CD14.

Source:CHO-cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:
CD14 was lyophilized from a concentrated protein solution (1 mg/ml) containing phosphate-buffered saline, pH 7.2.

Stability:
Lyophilized Mouse CD14 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse CD14 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Applications:
ELISA. Inhibition Assays. Western Blotting.

Solubility:
It is recommended to reconstitute the lyophilized Mouse CD14 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
CD14 (also known lipopolysaccharide (LPS) receptor) is expressed strongly on monocytes and macrophage and weakly on the surface of neutrophils. CD14 is anchored to cells by linkage to glycosylphosphatidylinositol (GPI) and functions as a high affinity receptor for complexes of LPS and LPS binding protein (LBP). Soluble CD14, also binding to LPS, acts at physiological concentration as an LPS agonist and has, at higher concentrations, an LPS antagonizing effect in cell activation. CD14 has been shown to bind apoptotic cells.

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