



Mouse anti CD14 Monoclonal Antibody

Alternative Name(s): lipopolysaccharide (LPS) receptor; CD14

Order Information

- **Description:** CD14
- **Catalogue:** 603-780
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** HCD14-61D3
- **Application:** IHC(P), FACS
- **Reactivity:** Hu

ANTIGEN PREPARATION

Mice were immunized with culture human peripheral blood monocytes.

BACKGROUND

CD14, also known lipopolysaccharide (LPS) receptor, is a 55 kDa glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein. It is expressed at high levels on monocytes and macrophage, and at lower levels on the surface of granulocytes and neutrophils. Some dendritic cell populations such as interfollicular dendritic cells, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. CD14 is anchored to cells by linkage to 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 is involved in the clearance of gram-negative pathogens and in the up-regulation of adhesion molecules and cytokines expression in monocytes and neutrophils

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD14 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/106 cells
- Molecular Weight: 54.0
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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- Cellular Location: Cell Membrane

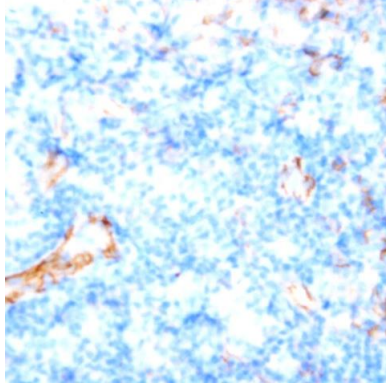
*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-CD14 (Cat# 603-780) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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