

Anti-Hu CD14 Purified Monoclonal Antibody

Catalog Number: M00137-1

About CD14

CD14 is a 55 kDa GPI-anchored glycoprotein, constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils, where it serves as a multifunctional lipopolysaccharide receptor. It is also released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. CD14 binds lipopolysaccharide molecule in a reaction catalyzed by lipopolysaccharide-binding protein (LBP), an acute phase serum protein. The soluble sCD14 is able to discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. CD14 affects allergic, inflammatory and infectious processes.

Overview

Product Name	Anti-Hu CD14 Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD14 Purified Monoclonal Antibody (Catalog# M00137-1). Tested in ELISA, IHC-P, Flow Cytometry application(s). This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IHC-P
Clonality	Monoclonal B-A8
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P08571

Technical Details

Immunogen	Human monocytes. The mouse monoclonal antibody B-A8 reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked extracellular membrane glycoprotein expressed on the surface of monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

ELISA: The antibody B-A8 has been tested as the capture antibody in a sandwich ELISA for analysis of human CD14 in combination with antibody MEM-18 (cat. no. 1B-212-C100). Flow cytometry: 1 ug/ml; Immunohistochemistry (paraffin sections): 2-10 ug/ml, positive tissue: PML brain sections; positive staining on human PML brain sections was mainly observed on monocytes in the luminal side of brain blood vessels, and on some perivascular cells adjacent to medium-sized vessels. Heat retrieval of antigen is recommended.

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