

For research use only

# CD-14 Antibody (CT)

**ALTERNATE NAMES:** CD14; Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; CD\_antigen=CD14; Monocyte differentiation antigen CD14, urinary form; Monocyte differentiation antigen CD14, membrane-bound form.

**CATALOG #:** 6732-100

**AMOUNT:** 100 µl

**HOST/ISOTYPE:** Rabbit IgG

**IMMUNOGEN:** This CD14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 292-322 amino acids from the C-terminal region of human CD14.

**PURIFICATION:** This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**MOLECULAR WEIGHT:** ~40.07 kDa

**FORM:** Liquid

**FORMULATION:** Supplied in PBS with 0.09% (W/V) sodium azide.

**SPECIES REACTIVITY:** Human.

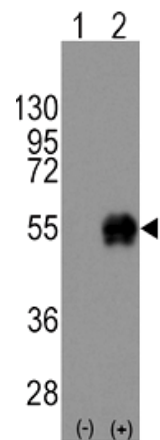
**STORAGE CONDITIONS:** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** Lipopolysaccharide (LPS) elicits the secretion of mediators and cytokines produced by activated macrophages and monocytes. CD14 is a glycosylphosphatidylinositol (GPI)-anchored protein found on the surfaces of monocytes and polymorphonuclear leukocytes. CD14 functions as a receptor for LPS, resulting in the secretion of various proteins. An important component in the LPS activation of monocytes through the CD14 receptor is the “adapter molecule,” lipopolysaccharide binding protein (LBP). There are two forms of CD14, a membrane-associated form (mCD14), and a soluble form (sCD14). mCD14 responds to LPS alone and facilitates the secretion of proteins, while cells not expressing mCD14 fail to respond to LPS. The cells that lack mCD14 respond to LPS/LBP in the presence of sCD14.

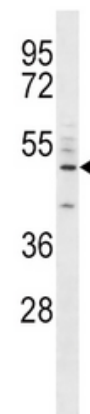
**APPLICATION:** Western blot: ~1:1000, IHC: ~1:10–1:50, FACS: ~1:10-1:50.

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.

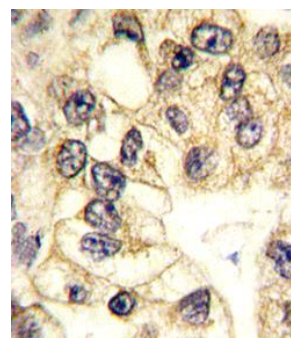
**FOR RESEARCH USE ONLY! Not to be used on humans.**



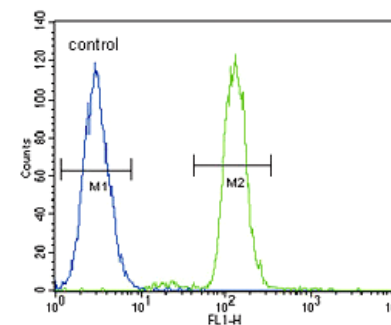
Western blot analysis of CD14 (arrow) using rabbit polyclonal CD14 Antibody (C-term) (Cat.# 6732). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the CD14 gene (Lane 2)



CD14 Antibody (C-term) (Cat.# 6732) western blot analysis in A549 cell line lysates (35 µg/lane). This demonstrates the CD14 antibody detected the CD14 protein (arrow).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with CD14 antibody (C-term) (Cat.# 6732), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



FACS analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies was used for the analysis.

**RELATED PRODUCTS:**

- CD-14 Antibody (NT) (Cat # 6733-100)
- CD-14 Antibody (Clone biG 10) (Cat # 3676-100)
- CD-14, human recombinant (Cat # 4937-10)
- CD-14, mouse recombinant (Cat # 4938-10)
- Human CellExp™ sCD14, Human Recombinant (Cat # 7122-10, -50)

