

## Anti-CD14 Antibody (1N545)

### Product Details

Ig Type:	IgG1
Reactivity:	Human, Mouse, Rabbit
Conjugation:	Unconjugated
Clone:	1N545
Purification:	Protein A purified

### Applications

#### 1. Western Blot

- Positive WB detected in: Rabbit spleen tissue, Rabbit small intestine tissue
- All lanes: CD14 antibody at 1:2500
- Secondary: Goat polyclonal to Mouse IgG at 1/10000 dilution
- Predicted band size: 41 kDa
- Observed band size: 55 kDa

#### 2. Western Blot

- Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate
- All lanes: CD14 antibody at 1:1800
- Secondary: Goat polyclonal to Mouse IgG at 1/10000 dilution
- Predicted band size: 41 kDa
- Observed band size: 55 kDa

3. Immunofluorescence staining of A549 cells with TMAH-00166 at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

4. Immunofluorescence staining of Hela cells with TMAH-00166 at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

5. Immunofluorescence staining of HepG2 cells with TMAH-00166 at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

6. Immunofluorescence staining of RAW264.7 cells with TMAH-00166 at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

7. Immunofluorescence staining of SY5Y cells with TMAH-00166 at 1:90, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

8. Overlay histogram showing Jurkat cells stained with TMAH-00166 (red line) at 1:180. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line)

Verified Activity:

was used under the same conditions. Acquisition of >10,000 events was performed.

9. Overlay histogram showing RAW264.7 cells stained with TMAH-00166 (red line) at 1:180. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA, WB, IHC, IF, FCM

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### Properties

Purity: >95%

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: Human Monocyte differentiation antigen CD14 Protein (20-345AA)

Antigen Species: Human

Gene ID: 929

Uniprot ID: P08571

Synonyms: CD14 antigen;CD14 molecule;monocyte differentiation antigen CD14

Biology Area: Immunology

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### Research Background

Coreceptor for bacterial lipopolysaccharide. In concert with LBP, binds to monomeric lipopolysaccharide and delivers it to the LY96/TLR4 complex, thereby mediating the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Acts as a coreceptor for TLR2:TLR6 heterodimer in response to diacylated lipopeptides and for TLR2:TLR1 heterodimer in response to triacylated lipopeptides, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Binds electronegative LDL (LDL(-)) and mediates the cytokine release induced by LDL(-).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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