

Store at
-20°C
#93882

CD14 (D1U2Y) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-F	M	Endogenous	45-52	Rabbit IgG	#P10810	12475

Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)

Dilution

1:1000
1:250 - 1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD14 (D1U2Y) Rabbit mAb recognizes endogenous levels of total mouse CD14 protein. This antibody does not cross-react with human CD14 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp327 of mouse CD14 protein.

Background

CD14 is a leucine-rich repeat-containing pattern recognition receptor with expression largely restricted to the monocyte/macrophage cell lineage (1). Research studies have shown that CD14 is a bacterial lipopolysaccharide (LPS) binding glycoprotein, expressed as either a GPI-linked membrane protein or a soluble plasma protein (2). LPS induces an upregulation of GPI-linked CD14 expression, which facilitates TLR4 signaling and macrophage activation in response to bacterial infection (3-5).

Background References

1. Wright, S.D. et al. (1991) *J Exp Med* 173, 1281-6.
2. Ziegler-Heitbrock, H.W. and Ulevitch, R.J. (1993) *Immunol Today* 14, 121-5.
3. Suzuki, M. et al. (2009) *J Immunol* 182, 6485-93.
4. Pugin, J. et al. (1994) *Immunity* 1, 509-16.
5. Zanoni, I. et al. (2011) *Cell* 147, 868-80.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen)

Cross-Reactivity Key

M: Mouse

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