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#75181**CD14 (D7A2T) Rabbit mAb (IHC Formulated)**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: IHC-Bond, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08571	Entrez-Gene Id: 929
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Product Usage Information**Application**

IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:200
1:500

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.

For a carrier free (BSA and azide free) version of this product see product #43878.

Specificity/Sensitivity

CD14 (D7A2T) Rabbit mAb (IHC Formulated) recognizes endogenous levels of total CD14 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro319 of human 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).

Applications Key

IHC-Bond: IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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