

Rabbit Anti-CD14 [EPR3653]: RM0024, RM0024RTU7

Intended Use: For Research Use Only

Description: CD14 is a 55-kDa protein found as a glycosylphosphatidylinositol (GPI)- anchored protein on the surface of monocytes, macrophages, and polymorphonuclear leukocytes, and as a soluble protein in the blood. Its main function is to serve as a receptor for lipopolysaccharide (LPS). Besides its role in endotoxin signaling, it has been proposed that CD14 is involved in the transportation of other lipids, cell-cell interactions during different immune responses, and recognition of apoptotic cells. CD14 is highly expressed on the surface of monocytes/macro- phages and strongly up-regulated during the differentiation of monocytic precursor cells into mature monocytes. Therefore, CD14 has been commonly used as a differentiation marker for monocytes/macrophages. Anti-CD14 also labels Langerhans' cells and dendritic cells.

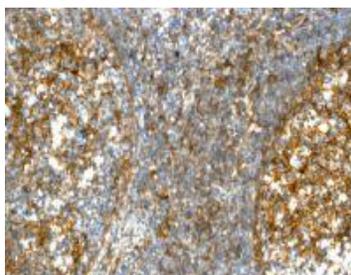
Specifications:

Clone: EPR3653
Source: Rabbit
Isotype: IgG
Reactivity: Human
Immunogen: Synthetic peptide within human CD14 aa 300-400
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
CD14 Concentrated	RM0024	1 ml
CD14 Prediluted	RM0024RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Tonsil, lymph node, appendix, colon, myeloid leukemia
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD14 antibody using DAB

References:

1. LPS-induced TLR4 signaling in human colorectal cancer cells increases beta1 integrin-mediated cell adhesion and liver metastasis. Hsu RY, et al. Cancer Res 71:1989-98, 2011.
2. Roles of interleukin-6 and parathyroid hormone-related peptide in osteoclast formation associated with oral cancers: significance of interleukin-6 synthesized by stromal cells in response to cancer cells. Kayamori K, et al. Am J Pathol 176:968-80, 2010.

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