

**Moab x CD14, 7 ml Ready to use**  
**Clone EPR3653**  
**Cat. no.: MON-RTU1242**

---

**Specificity**

CD14 is a surface protein preferentially expressed on monocytes/macrophages. It binds lipopolysaccharide binding protein and recently has been shown to bind apoptotic cells. Anti-CD14 antibody labels Kupffer cells in liver sinusoids. In lymphoid tissues, dendritic cells are distinctly stained. Most other normal tissues are negative. This antibody labels monocyte-macrophages and Langerhans cells in Langerhans cell histiocytosis. Tumor cells are positive in monocytic leukemia and true histiocytic lymphomas for CD14. Sinusoidal histiocytes express CD14 and CD 169, whereas most of the other monocyte-derived cells in reactive lymph node lack these markers. Anti-CD14 labels numerous diffuse large B-cell lymphomas and splenic marginal zone lymphoma but not in other B-cell lymphomas.

**Immunoglobulin type**

IgG

**Use**

Paraffin, Frozen

**Preparation and Pretreatment**

1. Cut 3-4  $\mu$ m section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58 °C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) technique in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

**Positive control**

Tonsil, DLBCL

**Staining pattern**

Cytoplasmic, membranous

**Presentation**

7 ml. prediluted. Ready to use

Anti CD14 is a purified rabbit monoclonal antibody diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide.

**Storage & handling**

Store antibody at 2-8 °C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.

**MONOSAN, a brand name of SANBIO B.V.**

P.O.Box 540, 5400 AM UDEN, The Netherlands

Tel. +31 413 251115, Fax. +31 413 266605

Website : [www.monosan.com](http://www.monosan.com) E-mail : [info@monosan.com](mailto:info@monosan.com)

05/10 Cat.# MON-RTU1242

## References

1. Marmey B, Boix C, et al., CD14 AND CD169 expression in lymph nodes and spleen: specific expansion of CD 14+CD169- monocyte-derived cells in diffuse large B-cell lymphomas. Human Pathol. 2006 Jan; 37(1):68-77.
2. Colovic N, Rajic Z, et al., Neutropenic enterocolitis in acute myeloid leukemia. Acta Chir lugosl. 2004; 51(2):127-31.
3. Raife TJ, Laser DJ, et al., Expression of CD24 (BA-1) predicts monocytic lineage in acute myeloid leukemia. Am J Clin Pathol. 1994 Mar;101 (3):296-9.
4. Simiantonaki N, Kurzik-Dumke U, et al., Reduced expression of TLR4 is associated with the metastatic status of human colorectal cancer. Int J Mol Med. 2007 Jul; 20 (1):21-9.
5. Zhao D, Sun T, et al., Role of CD14 promoter polymorphisms in helicobacter pylori infection-related gastric carcinoma. Clin Cancer Res. 2007 Apr 15; 13 (8):2362-8.
6. Mason KD, Juneja SK, et al., The immunophenotype of acute myeloid leukemia: is there a relationship with prognosis? Blood Rev. 2006 Mar;20(2):71-82.

### Also available on request:

1 ml, prediluted	Ready to use
0.1 ml, concentrate	1:50 -1:200*
0.5 ml, concentrate	1:50 -1:200*
1 ml, concentrate	1:50 -1:200*

\* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

**FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE**

**MONOSAN, a brand name of SANBIO B.V.**

P.O.Box 540, 5400 AM UDEN, The Netherlands

Tel. +31 413 251115, Fax. +31 413 266605

Website : [www.monosan.com](http://www.monosan.com) E-mail : [info@monosan.com](mailto:info@monosan.com)

05/10 Cat.# MON-RTU1242