

## Anti-CD14, mouse monoclonal (BS9)

BSH-7019-100 (0,1ml), BSH-7019-1 (1 ml)



|                            |                                      |
|----------------------------|--------------------------------------|
| <b>Clonality:</b>          | Mouse monoclonal antibody            |
| <b>Clone:</b>              | BS9                                  |
| <b>Application:</b>        | IHC-P (1:100 – 1:400), IHC-Fro       |
| <b>Species Reactivity:</b> | Human                                |
| <b>Control tissues:</b>    | Tonsil, liver, appendix              |
| <b>Buffer:</b>             | TRIS with 0.03% sodium azide, pH 7,2 |
| <b>Storage:</b>            | Store at 4°C                         |

### Description

CD14 antigen is a GPI-linked glycoprotein with a molecular weight of 55kD. It is expressed on cells of the myelomonocytic lineage including monocytes, macrophages and Langerhans cells. Low expression is observed on neutrophils and on human B cells. CD14 antigen is a receptor for bacterial lipopolysaccharide (LPS, endotoxin) and the lipopolysaccharide binding protein (LBP). LBP and CD14 antigen serve two physiological roles. These proteins act as opsonin and opsonic receptor, respectively, to promote the phagocytic uptake of bacteria or LPS coated particles by macrophages.

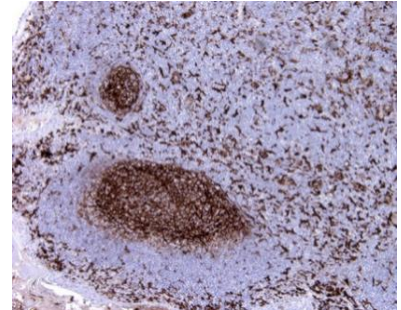
### Protocol

After paraffin removing and rehydration:

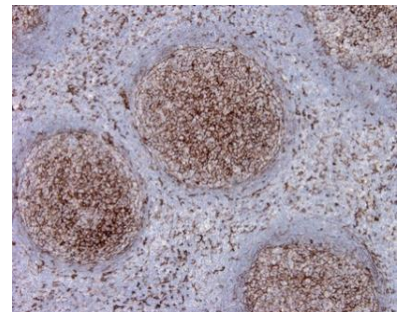
1. Pre-treatment: PT-module HIER pH9 (20min at 98°C)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: CD14 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H<sub>2</sub>O<sub>2</sub>), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. CuSO<sub>4</sub> -post enhancement, 5 min
12. Aqua

Counter staining, Bluing, dehydration, clearing, and mounting.

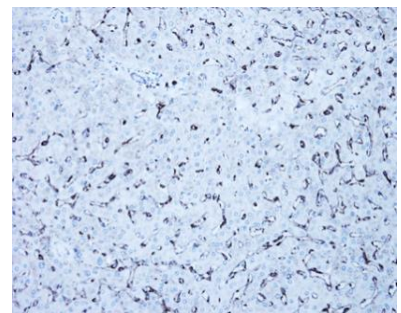
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Tonsil section have been stained using CD14 optibody (Clone: BS9) with 1:200 dilution. Follicular dendritic cells have strong label as well as macrophages in perifollicular area.



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Liver section have been stained using CD14 optibody (Clone: BS9) with 1:200 dilution. Kupffer cells have strong to moderate label.