

## Anti-Macrosialin CD68 Antibody Picoband® Biotin Conjugated

Catalog Number: PA2018-Biotin

### About CD68

CD68, cluster of differentiation, is a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. CD68 is a member of a family of hematopoietic mucin-like molecules that includes leukosialin/CD43 and stem cell antigen CD34. The CD68 gene is mapped to 17p13.1. Immunohistochemistry can be used to identify the presence of CD68, which is found in the cytoplasmic granules of a range of different blood cells. It is particularly useful as a marker for the various cells of the macrophage lineage, including monocytes, histiocytes, giant cells, Kupffer cells, and osteoclasts. This allows it to be used to distinguish diseases of otherwise similar appearance, such as the monocyte/macrophage and lymphoid forms of leukaemia (the latter being CD68 negative). Its presence in macrophages also makes it useful in diagnosing conditions related to proliferation or abnormality of these cells, such as malignant histiocytosis, histiocytic lymphoma, and Gaucher's disease.

### Overview

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Macrosialin CD68 Antibody Picoband® Biotin Conjugated                                                   |
| Reactive Species     | Human                                                                                                        |
| Application          | WB, IHC, ELISA                                                                                               |
| Clonality            | Polyclonal                                                                                                   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.                             |
| Host                 | Rabbit                                                                                                       |
| Uniprot ID           | P34810                                                                                                       |

### Technical Details

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| Immunogen           | A synthetic peptide corresponding to a sequence at the C-terminus of human CD68. |
| Cross Reactivity    | No cross-reactivity with other proteins                                          |
| Isotype             | Rabbit IgG                                                                       |
| Form                | Liquid                                                                           |
| Concentration       | 0.5 mg/mL                                                                        |
| Purification        | Immunogen affinity purified.                                                     |
| Conjugate           | Biotin                                                                           |
| Suggested Dilutions | Western blot, Optimal dilutions should be determined by end users.               |

Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

## 32 Publications Citing This Product

1. PubMed ID: -, Jian Pang, Li Zhou, Liqiu Liao et al. Correlation of sTILs Infiltration and UBR5 Expression on the Efficacy of Neoadjuvant Chemotherapy Efficacy and Prognosis in Early Triple Negative Breast Cancer, 13 January 2021, PREPRINT (Version 1) available at Research Square
2. PubMed ID: -, Fan Guo, Wei na Kong, Gang Zhao et al. The Correlation Between Tumor-associated Macrophage Infiltration and Progression in Cervical Carcinoma, 01 December 2020, PREPRINT (Version 1) available at Research Square [[+https://doi.org/10.21203/rs.3.rs-115339/v1](https://doi.org/10.21203/rs.3.rs-115339/v1)]
3. PubMed ID: 32765086, Guo F, Feng YC, Zhao G, Zhang R, Cheng ZZ, Kong WN, Wu HL, Xu B, Lv X, Ma XM. Tumor-Associated CD163+ M2 Macrophage Infiltration is Highly Associated with PD-L1 Expression in Cervical Cancer. Cancer Manag Res. 2020 Jul 15;12:5831-5843. doi:10.2147/CMAR.S257692. PMID:32765086

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