BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-Macrosialin CD68 Antibody Picoband®

**Catalog Number:** PA2018

## 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.

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## Overview

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|---|---|
| Product Name | Anti-Macrosialin CD68 Antibody Picoband® |
| Reactive Species | Human |
| Description | Boster Bio Anti-Macrosialin CD68 Antibody catalog # PA2018. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.<br>*This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P34810 |

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antibody and ELISA experts

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## Technical Details

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|---|---|
| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human CD68. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat<br>Western blot, 0.1-0.5ug/ml, Human |

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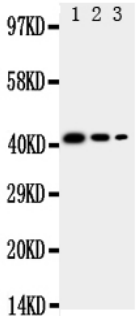
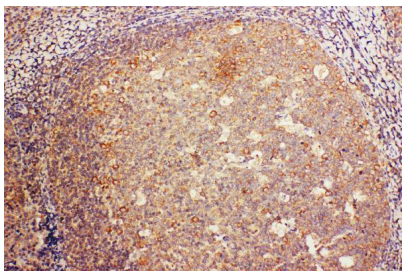
# Anti-Macrosialin CD68 Antibody Picoband® (PA2018) Images




Anti-CD68 antibody, PA2018, Western blottingRecombinant Protein Detection Source: E.coli derived -recombinant Human CD68, 42.5KD (162aa tag+ T128-L354)Lane 1: Recombinant Human CD68 Protein 10ng Lane 2: Recombinant Human CD68 Protein 5ng Lane 3: Recombinant Human CD68 Protein 2.5ng



Anti-CD68 antibody, PA2018, IHC(P)IHC(P): Human Tonsil Tissue

## 35 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

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+]

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:32

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