## CD68 Monoclonal Mouse Antibody (LAMP4/1830)



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## **Product Description**

This antibody recognizes a glycoprotein of 110 kDa, which is identified as CD68. It is important for identifying macrophages in tissue sections. It stains macrophages in a wide variety of human tissues, including Kupffer cells and macrophages in the red pulp of the spleen, in lamina propria of the gut, in lung alveoli, and in bone marrow. It reacts with myeloid precursors and peripheral blood granulocytes. It also reacts with plasmacytoid T cells, which are supposed to be of monocyte/macrophage origin. It shows strong granular cytoplasmic staining of chronic and acute myeloid leukemia and also reacts with rare cases of true histiocytic neoplasia. Lymphomas are negative or show few granules. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1830, Anti-CD68 (LAMP4/1830)

## **Product attributes** Antibody number intibody reactivity CD68 (target) Antibody type Host species Mouse Clonality Monoclonal Clone LAMP4/1830 Isotype IgG2b, kappa Molecular weight ~110 kDa GP110; LAMP4; Microsialin; Macrosialin; SCARD1; Scavenger Synonyms Receptor Class D Member-1 Human gene symbol Entrez gene ID SwissProt P34810 Unigene 647419 Recombinant fragment of humanCD68 protein (around aa 150-301) (exact sequence is proprietary) Immunogen Verified antibody Flow (verified), IHC (FFPE) (verified) Antibody target cellular localization Species reactivity Plasma membrane Positive control U87MG, Tonsil, Lymph Node or Spleen. Shipping condition Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Storage Conditions Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended For research use only (RUO) Regulatory status Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide Antibody/conjugate formulation Validated in protein array Antibody research areas

Granulocytes, Monocytes/macrophages, Myeloid precursors

Leukemia/lymphoma

Cell/tissue expression

Tumor expression

Email: btinfo@biotium.com

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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