

Purified anti-human CD68 Antibody

Catalog# / Size	375602 / 100 µg
Clone	BL13756
Regulatory Status	RUO
Other Names	Macrosialin
Isotype	Mouse IgG1, κ
Description	CD68 is a 110 kD glycoprotein, also known as macrosialin, belonging to the sialomucin family. It is closely related to the family of acidic, highly glycosylated lysosomal-associated membrane proteins (LAMPs). CD68 is predominately expressed in cytoplasmic granules of monocytes/macrophages, dendritic cells, and granulocytes. It is one of the useful myeloid cell markers. Further studies have shown that CD68 is also expressed by a subset of hematopoietic progenitors, γδ T cells, NK cells, LAK cells, subset of B cells, fibroblasts, and endothelial cells. The biological function of CD68 is still unknown.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Synthetic peptide corresponding to residues from the internal region of the human CD68 protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	IHC-P - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5 - 10 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2876705 (BioLegend Cat. No. 375602)

Antigen Details

Structure	Sialomucin family, 110 kD
Distribution	Monocytes/macrophages, dendritic cells, granulocytes, subset of hematopoietic progenitors, γδ T cells, NK cells, LAK cells, subset of B cells, fibroblasts, endothelial cells
Molecular Family	CD Molecules
Antigen References	1. Holness CL and Simmons DL. 1993. <i>Blood</i> . 81:1607. 2. Gottfried E, <i>et al.</i> 2008. <i>Scand. J. Immunol.</i> 67:453. 3. Hameed A, <i>et al.</i> 1994. <i>Hum. Pathol.</i> 25:872.
Gene ID	968

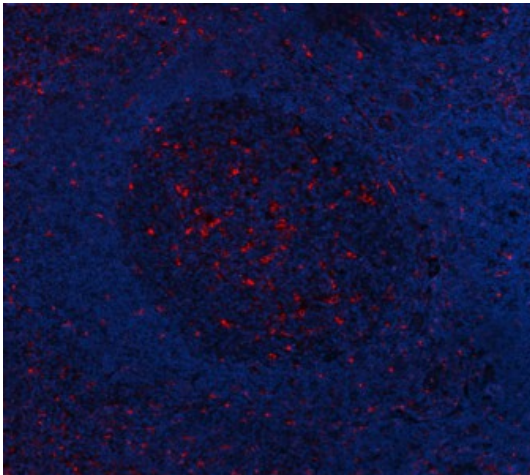
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

Other Formats

Purified anti-human CD68

Product Data



Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffination and rehydration. Antigen retrieval was done with Citrate buffer 1X pH 6.0 at 95°C for 40 minutes. Tissue was washed with PBS/ 0.05% Tween20 twice for five minutes, blocked with 5% FBS and 0.2% gelatin for 30 minutes and permeabilized with 0.5% Triton X-100. Then, the tissue was stained with 10 µg/mL of purified anti-human CD68 (clone BL13756) at 4°C overnight. On the next day, the tissue was washed twice with PBS and stained with goat anti-mouse secondary antibody (Poly4053) Alexa Fluor™ 594 (red) for two hours at room temperature. The nuclei were counter staining with DAPI (blue). The image was scanned with a 10X objective and stitched with software.

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