

## CD68 (Macrophage Marker) Antibody

Mouse Monoclonal Antibody [Clone LAMP4/1830]

Catalog No	Format	Size
968-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
968-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
968-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

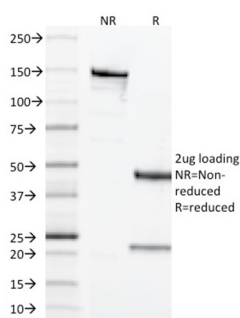
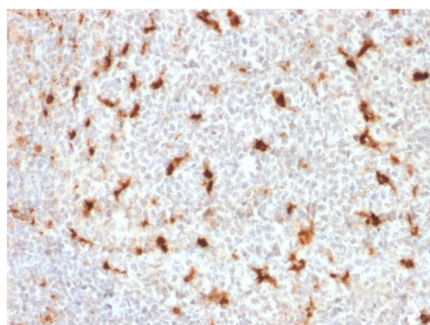
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	LAMP4/1830
<b>Gene Name</b>	CD68
<b>Immunogen</b>	Recombinant fragment of humanCD68 protein (around aa 150-301) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	110kDa
<b>Cellular Localization</b>	Cell membrane, Endosome membrane, Lysosome membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	lymph node or spleen., Tonsil, U87MG

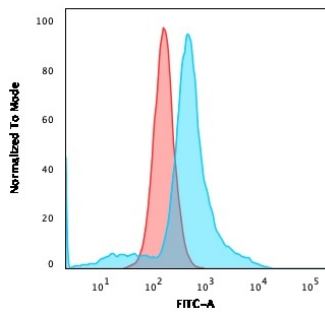
\*Optimal dilution for a specific application should be determined.

### Product Images for CD68 (Macrophage Marker) Antibody

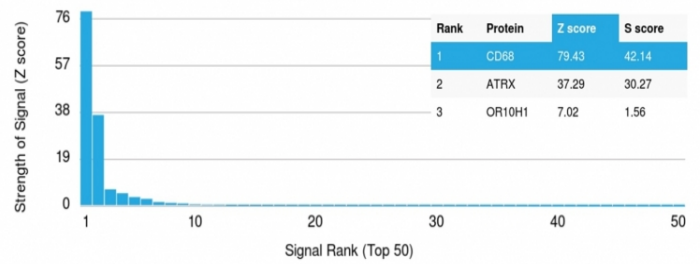


Formalin-fixed, paraffin-embedded human Tonsil stained with CD68 Mouse Monoclonal Antibody (LAMP4/1830).

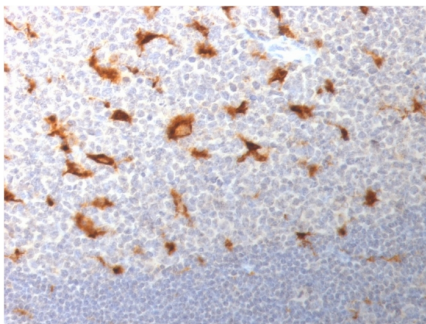
SDS-PAGE Analysis of Purified CD68 Mouse Monoclonal Antibody (LAMP4/1830). Confirmation of Integrity and Purity of Antibody.



Flow Cytometric Analysis of U87MG cells using CD68 Mouse Monoclonal Antibody (LAMP4/1830) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using CD68 Mouse Monoclonal Antibody (LAMP4/1830) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Tonsil stained with CD68 Mouse Monoclonal Antibody (LAMP4/1830).

### Specificity & Comments

This antibody recognizes a glycoprotein of 110kDa, 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Hematopoietic Stem Cells, Immunology