

Product datasheet

Anti-CD68 antibody [LAMP4/1830] ab238094

2 Images

Overview

<b>Product name</b>	Anti-CD68 antibody [LAMP4/1830]
<b>Description</b>	Mouse monoclonal [LAMP4/1830] to CD68
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Protein Array, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human CD68 aa 150-301. The exact sequence is proprietary. Database link: <a href="#">P34810</a>
<b>Positive control</b>	IHC-P: Human tonsil tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	Purified from bioreactor concentrate.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	LAMP4/1830
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

## Applications

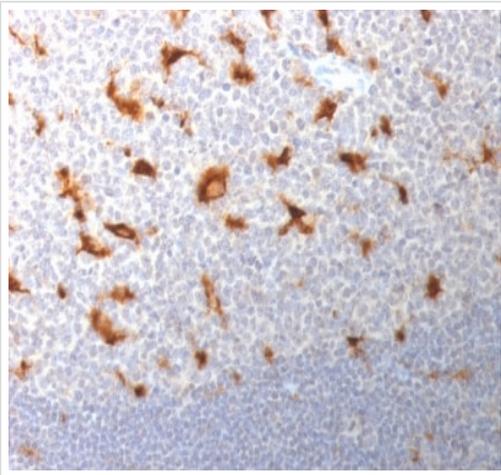
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab238094 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Protein Array		Use at an assay dependent concentration.
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Incubate with primary antibody for 30 mins at RT.

## Target

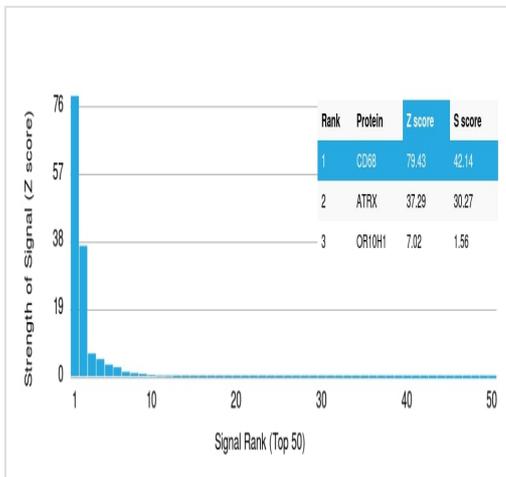
<b>Function</b>	Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.
<b>Tissue specificity</b>	Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.
<b>Sequence similarities</b>	Belongs to the LAMP family.
<b>Post-translational modifications</b>	N- and O-glycosylated.
<b>Cellular localization</b>	Cell membrane and Endosome membrane. Lysosome membrane.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD68 antibody [LAMP4/1830] (ab238094)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for CD68 with ab238094 at 1 µg/ml in immunohistochemical analysis.



Protein Array - Anti-CD68 antibody (ab238094)

ab238094 was tested in protein array against over 19000 different full-length human proteins.

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 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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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