

Novocastra[™] Liquid Mouse Monoclonal Antibody CD68

BIOSYSTEMS

Product Code: NCL-L-CD68

Intended Use FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Specificity Human CD68 antigen.

Clone 514H12

Ig Class IgG2a, kappa

Antigen Used for Prokaryotic fusion protein corresponding to the carboxy-terminal half of the external domain of the

Immunizations human CD68 molecule.

Hybridoma Partner Mouse myeloma (p3-NS1-Ag4-1).

Preparation Liquid tissue culture supernatant containing sodium azide.

Volume as indicated on vial label.

Effective on Frozen Tissue Yes (Acetone fixation required).

Yes

Effective on Paraffin Wax

Recommendations on Use

Embedded Tissue

Immunohistochemistry on paraffin sections.

Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra

Epitope Retrieval Solution pH 9.

Suggested dilution: 1:100 for 30 minutes at 25 °C. This is provided as a guide and users should

determine their own optimal working dilutions.

Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica

Biosystems, or alternatively, visit the Leica Biosystems web site, www.LeicaBiosystems.com

NB In some cases, the peroxidase block step immediately following HIER may affect the staining

acheived with this antibody.

The performance of this antibody should be validated when utilized with other manual staining

systems or automated platforms.

Western Blotting: Not recommended.

Positive Controls Immunohistochemistry: tonsil.

Staining Pattern Cytoplasmic.

Storage and Stability Store at 2–8 °C. Do not freeze. Return to 2–8 °C immediately after use. Do not use after

expiration date indicated on the vial label. Storage conditions other than those specified above

must be verified by the user.

Warnings and Precautions This reagent has been prepared from the supernatant of cell culture. As it is a biological product,

reasonable care should be taken when handling it.

This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or

available from www.LeicaBiosystems.com

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General Overview

CD68 antigen is a 110 kD intracellular glycoprotein primarily associated with cytoplasmic granules and to a lesser extent the membranes of macrophages, monocytes, neutrophils, basophils and large lymphocytes. The function of CD68 antigen is unknown but these lysosomal glycoproteins are the major components and may protect the membranes from attack by acid hydrolases. It is unclear if the surface associated CD68 antigen is functionally significant or due to leakage from the lysosomes. CD68 expression has been demonstrated in stimulated T cells and NK cells, nonhematopoietic tissues such as the liver and renal tubules. Clone 514H12 immunohistochemically stains macrophages in various tissues including Kupffer's cells and in the red pulp of the spleen, lamina propria of the gut, lung alveoli and bone marrow. This clone reacts with myeloid precursors and peripheral blood granulocytes and monocytes.

General References

Gu M, Sohn KR, Kim DJ, et al. Annals of Diagnostic Pathology. 2007; 11:64-67. Da Costa CET, Annels NE, Faaij CMJM, et al. The Journal of Experimental Medicine. 2005; 201(5):687-693.