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Technically
Speaking

CEDARLANE[®] 
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

Anti-Human CD163 Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL7617AP	Purified	200µg	1.0 mg/ml	CLCMG100
CL7617B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL7617F	FITC	100µg	0.1 mg/ml	CLCMG101
CL7617PE	PE	50µg	0.1 mg/ml	CLCMG104
CL7617APC	APC	100µg	0.1 mg/ml	CLCMG105
CL7617AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL7617AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgG_{1, k}

DESCRIPTION:

Cedarlane's Anti-Human CD163 monoclonal antibody binds CD163, also known as haemoglobin scavenger receptor and M130. This receptor is a membrane glycoprotein of 130 kDa and is found during the late stages of inflammation exclusively on the surface of human monocytes and macrophages. CD163 is a member of the scavenger receptor cysteine-rich family, and is a receptor for the haemoglobin-haptoglobin complex.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC, PE, APC, AF488 and AF647: Biotin/FITC/PE/APC/AF488/AF647 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE, APC, AF488 and AF647** conjugates. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATION:

This antibody is suitable for use in Western Blot, Immunoprecipitation, Immunohistochemistry (Frozen; Paraffin-Embedded) and Flow Cytometry.

Continued Overleaf....

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An ISO 9001:2015 and ISO 13485:2016
registered company.

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SPECIFICATIONS:

Clone: GHI/61

Hybridoma Production:

Immunization: Mouse monoclonal antibodies raised against Hairy cell leukemia cells.

Specificity: This antibody is specific for human CD163.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

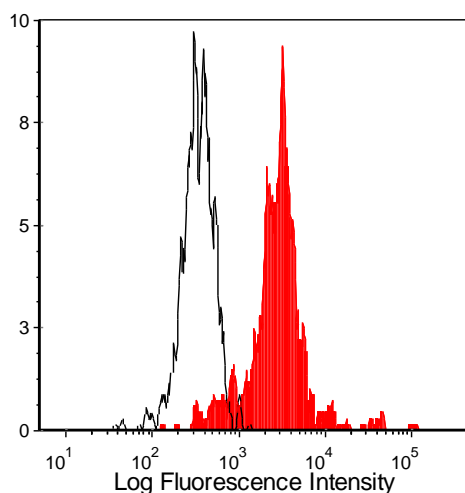
Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell Source

Percentage of cells stained above control:

Human Monocytes

86.16 %



Human peripheral blood monocytes were stained with anti-CD163 (clone: GHI/61) (filled histogram) or mouse IgG1 isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

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2. Law SK, Micklem KJ, Shaw JM, Zhang XP, Dong Y, Willis AC, Mason DY. A new macrophage differentiation antigen which is a member of the scavenger receptor superfamily. *Eur J Immunol*. 23(9):2320-5. 1993.
3. Møller HJ, Peterslund NA, Gravensen JH, Moestrup SK. Identification of the hemoglobin scavenger receptor/CD163 as a natural soluble protein in plasma. *Blood*. 99(1):378-80. 2002.
4. Moniuszko M, Kowal K, Rusak M, Pietruczuk M, Dabrowska M, Bodzenta-Lukaszyk A. Monocyte CD163 and CD36 expression in human whole blood and isolated mononuclear cell samples: influence of different anticoagulants. *Clin Vaccine Immunol*. 13(6):704-7. 2006.

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