

Mouse CD163 Monoclonal Antibody | anti-CD163 antibody

CD163 (Monocyte & Macrophage Marker)

CATALOG # AAA214714	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

CD163; Monoclonal Antibody; CD163 (Monocyte & Macrophage Marker); CD163 antigen; Macrophage-associated antigen; M130; CD163 molecule; Hemoglobin scavenger receptor; MM130; Scavenger receptor cysteine rich type 1 protein M130; anti-CD163 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	M130/1210
Specificity	This MAb recognizes a protein of 140kDa, identified as CD163. It has been identified as an acute phase-regulated transmembrane protein whose function is to mediate the endocytosis of haptoglobin-hemoglobin complexes. This receptor is expressed on the surface of monocytes with low expression and on tissue macrophages, histiocytes with high expression. Staining with anti-CD163 has been helpful to distinguish synovial macrophages from synovial intimal fibroblasts in rheumatoid arthritis, where its specificity for macrophages was found to be superior to that of anti-CD68. Increased levels of CD163 were also detected in patients with microbial infections and myelomonocytic leukemias. Anti-CD163 is of considerable value for selective identification of monocytes and macrophages at a certain stage of differentiation and is suitable for myelomonocytic or monocytic leukaemia and neoplasms of true histiocytic origin. CD163 is positive in skin (histiocytes), gut, Kupffer cells, a few alveolar macrophages, macrophages in the placenta, and in macrophages in inflamed tissues including tumor tissue.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Sequence Length	1156
Applicable Applications for anti-CD163 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human CD163 fragment (around aa 43-196) (Exact sequence is proprietary)
Cellular Localization	Cell Surface & Cytoplasmic
Hu-chromosome Location	12p13.3
Positive Control	hPBL Cells. Skin, Lung, Placenta or Histiocytoma.
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD163 Mouse Monoclonal Antibody (M130/1210).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 HuProtTM 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 HuProtTM 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.



WB (Western Blot)

Western Blot Analysis of Spleen tissue lysate using CD163 Mouse Monoclonal Antibody (M130/1210).



SDS-PAGE

SDS-PAGE Analysis Purified CD163 Mouse Monoclonal Antibody (M130/1210).Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Histiocytoma stained with CD163 Mouse Monoclonal Antibody (M130/1210).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Lymph Node stained with CD163 Mouse Monoclonal Antibody (M130/1210).

ADDITIONAL INFORMATION

References	Sean K. Lau, Peiguo G. Chu, and Lawrence M. Weiss. CD163: A Specific Marker of Macrophages in Paraffin-Embedded Tissue Samples Am J Clin Pathol 2004; 122:794-801.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	344179110
NCBI GeneID	9332
NCBI Accession #	NP_004235.4
NCBI GenBank Nucleotide #	NM_004244.5
UniProt Accession #	Q86VB7; Q07898; Q07899; Q07900; Q07901; Q2VLH7; C9JIG2
Molecular Weight	140kDa
NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130 isoform a
NCBI Official Synonym Full Names	CD163 molecule
NCBI Official Symbol	CD163
NCBI Official Synonym Symbols	M130; MM130; SCAR11
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130

UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd163-antibody-clone-m130-1210-immunohistochemistry-elisa/214714>