Datasheet for ABIN5518691

anti-CD163 antibody (AA 1056-1165)

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Overview

Quantity:	100 µg
Target:	CD163
Binding Specificity:	AA 1056-1165
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD163 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Scavenger receptor cysteine-rich type 1 protein M130(CD163) detection. Tested with WB, IHC-P in Human.
Immunogen:	E. coli-derived human CD163 recombinant protein(Position: F1056-L1165).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Scavenger receptor cysteine-rich type 1 protein M130(CD163) detection. Tested with WB, IHC-P in Human. Gene Name: CD163 Molecule Protein Name: Scavenger receptor cysteine-rich type 1 protein M130
Purification:	Immunogen affinity purified.

Target Details

Target:	CD163
Alternative Name:	CD163 (CD163 Products)
Background:	CD163(Cluster of Differentiation 163) also known as HEMOGLOBIN SCAVENGER RECEPTOR, is a human protein encoded by the CD163 gene. The receptor belongs to the scavenger receptor cysteine rich family type B and consists of an 1048 amino acid residues extracellular domain, a single transmembrane segment and a cytoplasmic tail with several splice variants. CD163 is a scavenger receptorfor the hemoglobin-haptoglobincomplex. Using FISH, somatic cell hybrid analysis, and radiation hybrid analysis, Stover et al.(2000) mapped the CD163 gene to chromosome 12p13.3. Specific CD163-mediated endocytosis of haptoglobin-hemoglobin complexes was measurable in cells transfected with CD163 cDNA and in CD163-expressing myelomonocytic lymphoma cells.CD163 expression in monocytes promoted bacteria-induced proinflammatory cytokine production that could be blocked by anti-CD163 antibodies. Cells expressing human CD163 and recombinant protein containing the extracellular domain of CD163 supported adhesion of erythroblastic cells. Synonyms: C163A_HUMAN antibody|CD 163 antibody|CD163 antibody|CD163 antigen antibody|CD163 Molecule antibody|Hemoglobin Scavenger Receptor antibody|M130 antibody|M130 antigen precursor antibody|Macrophage associated antigen antibody|MM130 antibody|OTTHUMP00000238617 antibody|OTTHUMP00000238618 antibody|OTTHUMP00000238619 antibody|OTTHUMP00000238620 antibody|Scavenger receptor cysteine rich type 1 protein M130 antibody|sCD163 antibody|Soluble CD163 antibody

Application Details

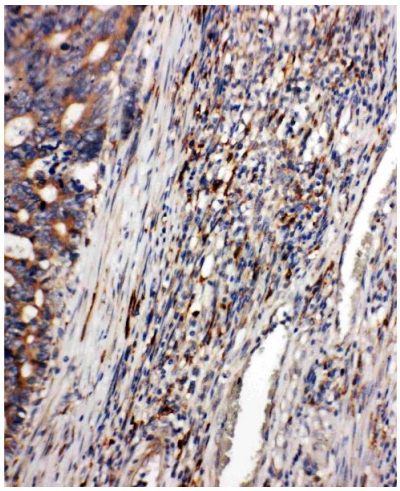
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for CD163 is approximately 1 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

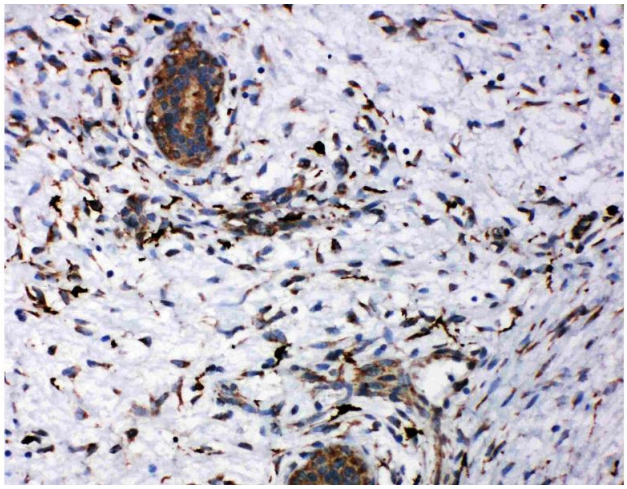
Publications

Product cited in:	Liu, Xiao, Liu, Li, Zhou, Xian, Wang, Zhang, Wang, Ho, Zhuang: "SIV Infection Impairs the Central Nervous System in Chinese Rhesus Macaques." in: **Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology**, Vol. 11, Issue 3, pp. 592-600, (2017) (PubMed). Huang, Chen, Wang, Wang, Ning, He, Hu, Yuan, Li, Wang, Liu, Chen, Ren, Sun: "Detecting cell-in-cell structures in human tumor samples by E-cadherin/CD68/CD45 triple staining." in: **Oncotarget**, Vol. 6, Issue 24, pp. 20278-87, (2016) (PubMed).



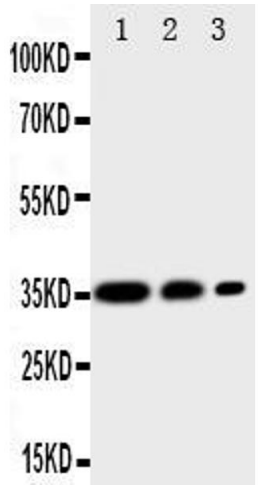
Immunohistochemistry

Image 1. Anti-CD163 antibody, IHC(P): Human Intestinal Cancer Tissue



Immunohistochemistry

Image 2. Anti-CD163 antibody, IHC(P): Human Mammary Cancer Tissue



Western Blotting

Image 3. Anti-CD163 antibody, Western blottingAll lanes: Anti CD163 at 0.5ug/ml Lane 1: Recombinant Human CD163 Protein 10ng Lane 2: Recombinant Human CD163 Protein 5ng Lane 3: Recombinant Human CD163 Protein 2.5ngPredicted bind size: 35KDObserved bind size: 35KD