10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

CD163 Antibody (clone 2C7)

Mouse Monoclonal Antibody
Catalog # ALS16268

Specification

CD163 Antibody (clone 2C7) - Product Information

Application	**WB, IF, IHC**
Primary Accession	Q86VB7
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**125kDa KDa**

CD163 Antibody (clone 2C7) - Additional Information

Gene ID 9332

Other Names
Scavenger receptor cysteine-rich type 1 protein M130, Hemoglobin scavenger receptor, CD163, Soluble CD163, sCD163, CD163, M130

Target/Specificity
Human CD163

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
CD163 Antibody (clone 2C7) is for research use only and not for use in diagnostic or therapeutic procedures.

CD163 Antibody (clone 2C7) - Protein Information

Name CD163

Synonyms M130

Function
Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH- dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells.

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Cellular Location
[Soluble CD163]: Secreted

Tissue Location
Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood

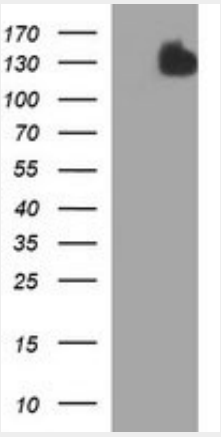
Volume
50 µl

CD163 Antibody (clone 2C7) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD163 Antibody (clone 2C7) - Images



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD163...

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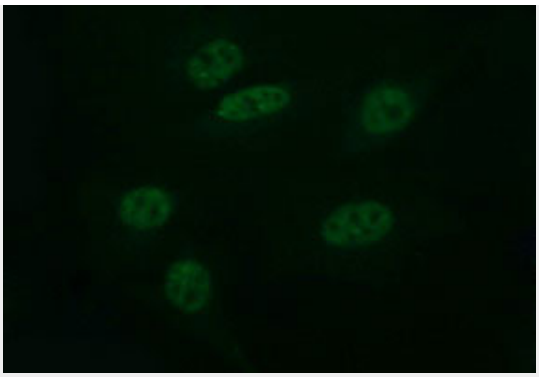
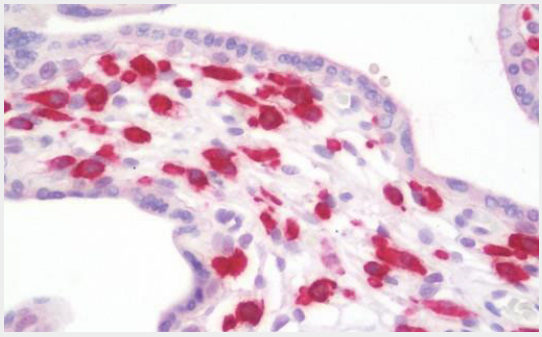


Immunofluorescent staining of HeLa cells using anti-CD163 mouse monoclonal antibody.



Anti-CD163 antibody IHC staining of human placenta.

CD163 Antibody (clone 2C7) - Background

Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells.

CD163 Antibody (clone 2C7) - References

Law S.K.A.,et al.Eur. J. Immunol. 23:2320-2325(1993).
Ritter M.,et al.Biochem. Biophys. Res. Commun. 260:466-474(1999).
Welch S.-K.W.,et al.Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
Scherer S.E.,et al.Nature 440:346-351(2006).
Droste A.,et al.Biochem. Biophys. Res. Commun. 256:110-113(1999).