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Rabbit Anti-CD163 antibody

SL2527R

Product Name:	CD163
Chinese Name:	CD163抗体
Alias:	Scavenger receptor cysteine-rich type 1 protein M130; CD 163; CD163 antigen; CD163 molecule; Hemoglobin Scavenger Receptor; M130; M130 antigen precursor; Macrophage associated antigen; MM130; C163A_HUMAN.
文献引用 PubMed :	**Specific References(14)**|SL2527R has been referenced in 14 publications. **[IF=3.73]**Zeng, Wei-qun, et al. "A New Method to Isolate and Culture Rat Kupffer Cells." PLOS ONE 8.8 (2013): e70832.**Rat**. PubMed:23967115 **[IF=2.46]**Wang, Shan, et al. "5-Aminolevulinic Acid–mediated Sonodynamic Therapy Reverses Macrophage and Dendritic Cell Passivity in Murine Melanoma Xenografts." Ultrasound in Medicine & Biology (2014).**IHC-P;Mouse**. PubMed:25023114 **[IF=3.05]**Tepek?ylü, Can, et al. "Alteration of inflammatory response by shock wave therapy leads to reduced calcification of decellularized aortic xenografts in mice." European Journal of Cardio-Thoracic Surgery (2014): ezu428.**IHC-P;Pig**. PubMed:25422292 **[IF=7.21]**Oh, Jisu, et al. "Deletion of Macrophage Vitamin D Receptor Promotes Insulin Resistance and Monocyte Cholesterol Transport to Accelerate Atherosclerosis in Mice." Cell Reports (2015).**Mouse**. PubMed:not posted yet **[IF=4.20]**Ge, L. P., et al. "Integration of nondegradable polystyrene and degradable

gelatin in a core–sheath nanofibrous patch for pelvic reconstruction." International Journal of Nanomedicine 2015:10 3193–3201**IHC-P;Rat**.

PubMed:25995629

[IF=5.58]Franken, Lars, et al. "Splenic red pulp macrophages are intrinsically superparamagnetic and contaminate magnetic cell isolates." Scientific Reports5 (2015).**Mouse**.

PubMed:26260698

[IF=4.38]Wang, Lei, et al. "A novel nano-copper-bearing stainless steel with reduced Cu2+ release only inducing transient foreign body reaction via affecting the activity of NF-κB and Caspase 3." International Journal of Nanomedicine 10 (2015): 6725.**IHC-P;Mouse**.

PubMed:26604748

[IF=5.04]Drel, Viktor R., et al. "Centrality of bone marrow in the severity of gadolinium-based contrast-induced systemic fibrosis." The FASEB Journal(2016): fj-201500188R.**IHC-P;Rat**.

PubMed:27221979

[IF=5.76]Das, Subhamoy, et al. "Syndesome Therapeutics for Enhancing Diabetic Wound Healing." Advanced Healthcare Materials (2016).**IHC-P;Mouse**.

PubMed:27385307

[IF=0.00]Dharmakumar, Rohan, and Ivan Cokic. "Assessment of iron deposition post myocardial infarction as a marker of myocardial hemorrhage." U.S. Patent Application No. 14/125,307.**IHC-P;Dog**.

PubMed:000

[IF=5.23]Kugo, H. et al. "Adipocyte in vascular wall can induce the rupture of abdominal aortic aneurysm." Sci. Rep. 6, 31268**IHC-F;Rat**.

PubMed:27499372

[IF=5.12]Bobi, Joaquim, et al. "Intracoronary Administration of Allogeneic Adipose Tissue–Derived Mesenchymal Stem Cells Improves Myocardial Perfusion But Not Left Ventricle Function, in a Translational Model of Acute Myocardial Infarction." Journal of the American Heart Association 6.5 (2017): e005771.**IHC-P;Pig**.

PubMed:28468789

[IF=3.15]Chen, Xionglin, et al. "Peptide-modified chitosan hydrogels promote skin

	wound healing by enhancing wound angiogenesis and inhibiting inflammation." Am J Transl Res 9.5 (2017): 2352-2362.**IHC-P;Mouse**. PubMed:28559985 **[IF=1.57]**Yin, Li, Cuifang Chang, and Cunshuan Xu. "Expressions Profiles of the Proteins Associated with Carbohydrate Metabolism in Rat Liver Regeneration." BioMed Research International 2017 (2017).**WB;Rat**. PubMed:0
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	130kDa
Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD163:1001-1121/1156<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CD163 is a 130 kDa membrane glycoprotein. It is a member of the scavenger receptor cysteine-rich superfamily and is a receptor for the hemoglobin-haptoglobin complex. CD163 is expressed exclusively on the cell surface of human monocytes and macrophages that evolve predominantly in the late phase of inflammation. CD163 is present on all CD14 positive monocytes, most CD64 positive monocytes, and shows higher expression on CD16 positive monocytes. CD163 is upregulated on mononuclear phagocytes by IL-10, IL-6 and dexamethasone. Lipopolysaccharide (LPS) and phorbol myristate acetate (PMA) both induce shedding of CD163 from the cell surface into plasma or cell supernatant. **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.

Subcellular Location:
Secreted and Cell membrane. Isoform 1 and isoform 2 show a lower surface expression when expressed in cells.

Tissue Specificity:
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.

Post-translational modifications:
A soluble form (sCD163) is produced by proteolytic shedding which can be induced by lipopolysaccharide, phorbol ester and Fc region of immunoglobulin gamma. This cleavage is dependent on protein kinase C and tyrosine kinases and can be blocked by protease inhibitors. The shedding is inhibited by the tissue inhibitor of metalloproteinase TIMP3, and thus probably induced by membrane-bound metalloproteinases ADAMs. Phosphorylated.

Similarity:
Contains 9 SRCR domains.

SWISS:
Q86VB7

Gene ID:
9332

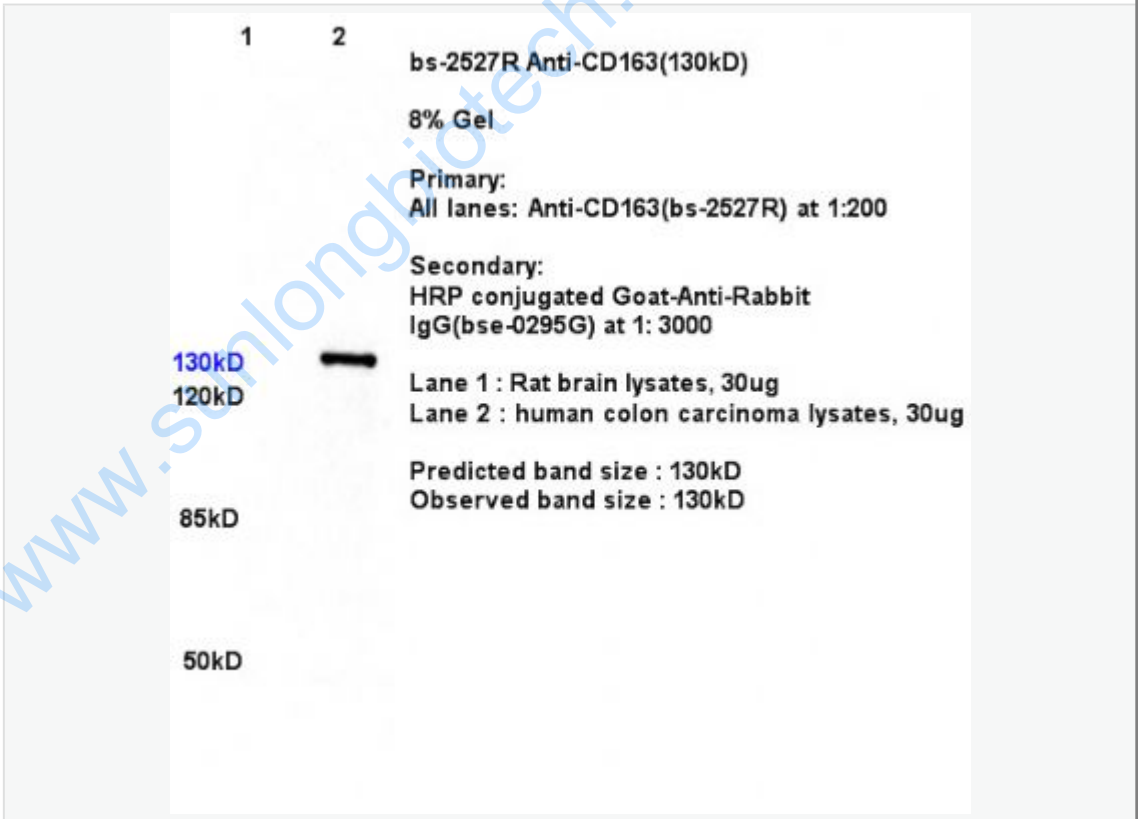
Database links:

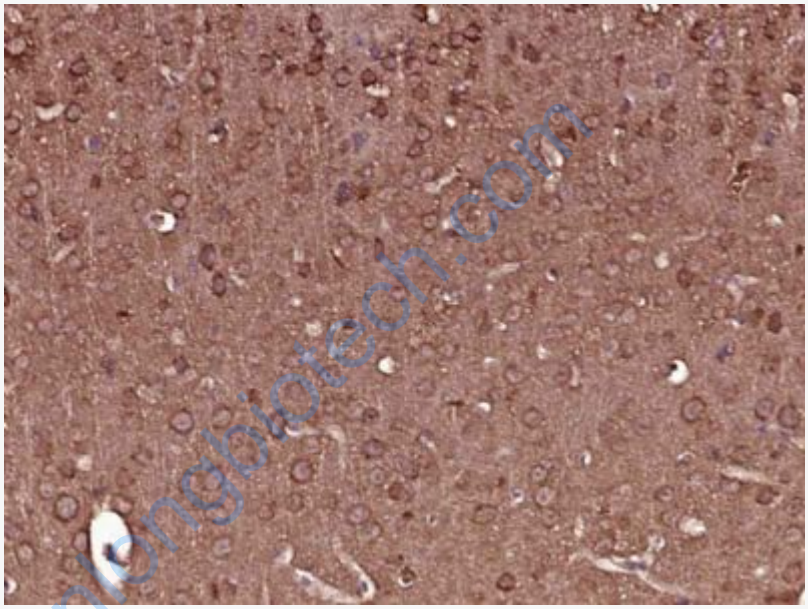
Entrez Gene: 9332Human

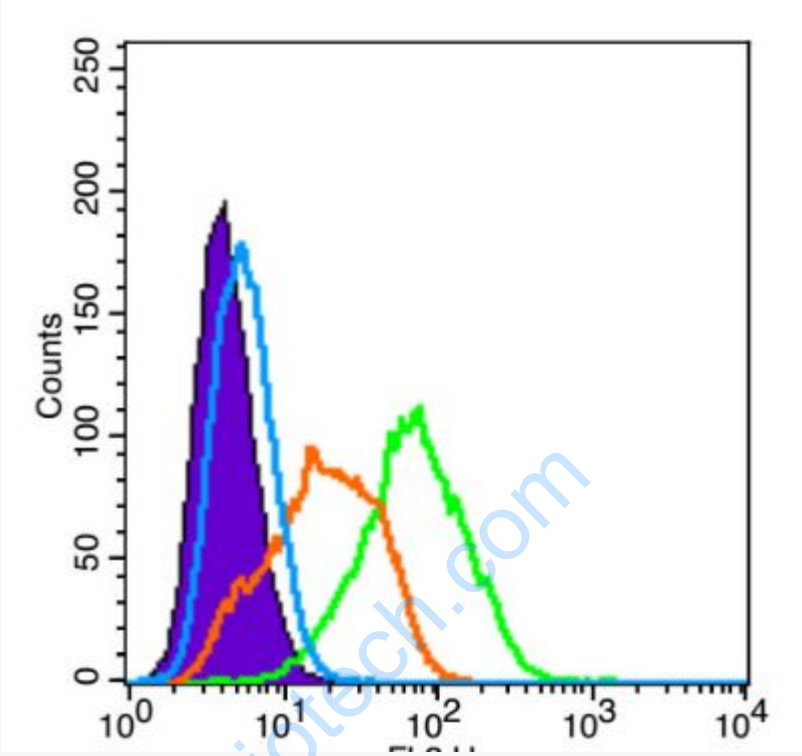
Omim: 605545Human

SwissProt: Q86VB7Human

Unigene: 504641Human

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. CD163是SRCR超家族成员之一，又称为血红蛋白清道夫受体(hemoglobin scavenger receptor, HbSR)、M130或p155。CD163的表达水平受很多因素调节，糖皮质激素及抗炎介质如IL-10以及IL-6能上调CD163，而促炎介质如脂多糖(lipopolysaccharide, LPS)、γ-Interferon(interferon-γ，IFN-γ)以及TNF-α则抑制CD163表达。 CD163是一种I型膜蛋白，又称为M130抗原、Ber-Mac3、Ki-M8或SM4。CD163限制性表达于单核/巨噬细胞系，所有循环系统的单核细胞和大多数组织(除外淋巴滤泡套区和生发中心)的巨噬细胞均阳性表达，主要用于单核/巨噬细胞的检测。
Picture:	 Sample: Lane1: Brain (Rat) Lysate at 30 ug Lane2: Colon carcinoma(Human) Lysate at 30 ug

	Primary: Anti- CD163 (SL2527R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 130kD
	 Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD163) Polyclonal Antibody, Unconjugated (SL2527R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (Black line): U2OS.

Primary Antibody (green line): Rabbit Anti-CD163 antibody (SL2527R)

Dilution: 3µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% paraformaldehyde for 10 min at room temperature. Cells incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were then stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room

	temperature. Acquisition of 20,000 events was performed.