Datasheet for ABIN741570

anti-CD163 antibody (AA 1001-1121)

7 Images | 27 Publications

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Overview

Quantity:	100 µL
Target:	CD163
Binding Specificity:	AA 1001-1121
Reactivity:	Human, Mouse, Rat, Pig, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD163 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD163/M130
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rat
Predicted Reactivity:	Horse
Purification:	Purified by Protein A.

Target Details

Target:	CD163

Target Details

Alternative Name:	Cd163/M130 (CD163 Products)
Background:	Synonyms: M13, MM13, Scavenger receptor cysteine-rich type 1 protein M13, Hemoglobin scavenger receptor, CD163, M130 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. After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.
Gene ID:	9332
UniProt:	Q86VB7

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

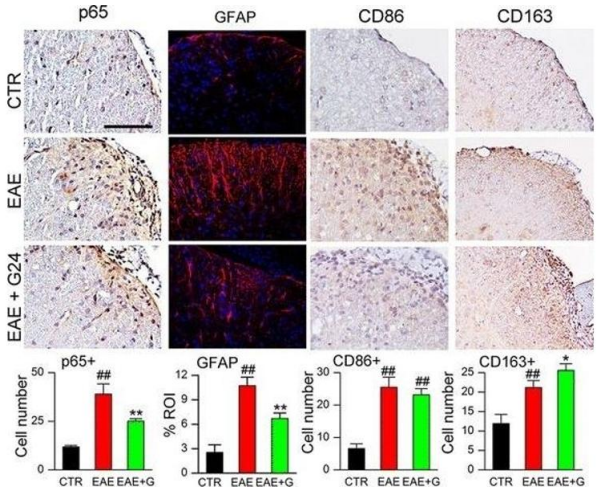
Riuzzi, Beccafico, Sagheddu, Chiappalupi, Giambanco, Bereshchenko, Riccardi, Sorci, Donato: " Levels of S100B protein drive the reparative process in acute muscle injury and muscular dystrophy." in: **Scientific reports**, Vol. 7, Issue 1, pp. 12537, (2019) (PubMed).

Kobori, Hamasaki, Kitaura, Yamazaki, Nishinaka, Niwa, Nakao, Wake, Mori, Yoshino, Nishibori, Takahashi: "Interleukin-18 Amplifies Macrophage Polarization and Morphological Alteration, Leading to Excessive Angiogenesis." in: **Frontiers in immunology**, Vol. 9, pp. 334, (2019) (PubMed).

Yin, Chang, Xu: "Expressions Profiles of the Proteins Associated with Carbohydrate Metabolism in Rat Liver Regeneration." in: **BioMed research international**, Vol. 2017, pp. 8428926, (2018) (PubMed).

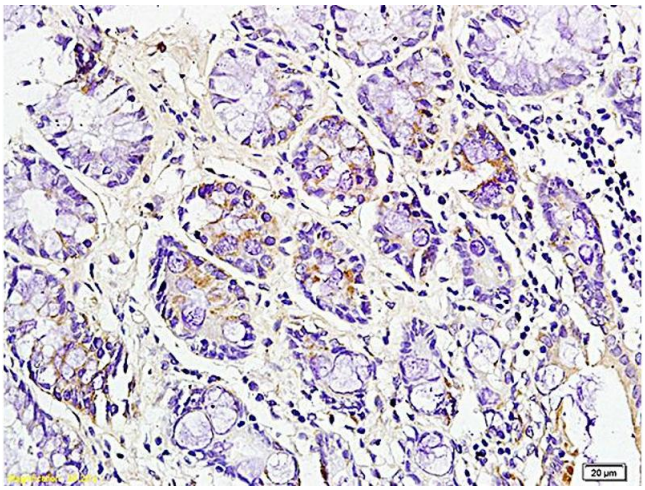
Chen, Zhang, Wang, Chen, Yan, Zhang, Zhang: "Peptide-modified chitosan hydrogels promote skin wound healing by enhancing wound angiogenesis and inhibiting inflammation." in: **American journal of translational research**, Vol. 9, Issue 5, pp. 2352-2362, (2017) (PubMed).

There are more publications referencing this product on: Product page



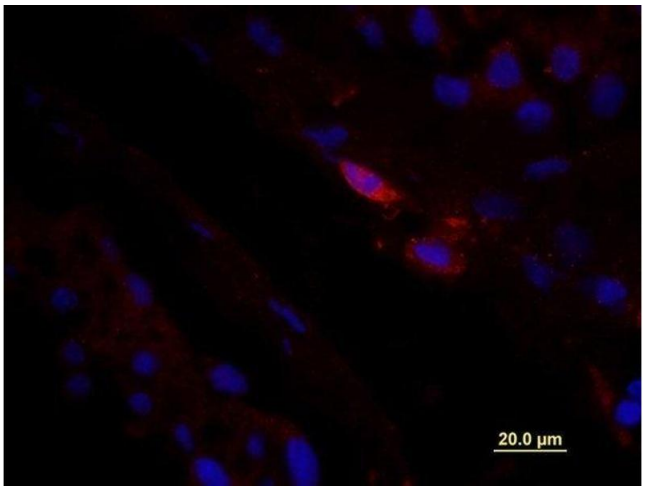
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Chronic phase glibenclamide reduces inflammation and improves the macrophage phenotype in EAE. White matter of lumbar spinal cord sections from non-EAE control (CTR), untreated EAE mouse (EAE), and EAE mouse treated with glibenclamide starting on pid-24 (EAE + G), examined at pid-40, immunolabeled for p65 (NF-κB subunit), GFAP (astrocytosis), CD86 (M1 marker) or CD163 (M2 marker), as indicated, original magnification, x400, bar graphs: quantification of p65+, GFAP, CD86+, and CD163+ cells in white matter, 5 mice/group, ##P < 0.01 with respect to non-EAE control (CTR), *P < 0.05 and **P < 0.01 with respect to untreated EAE, scale bars 100 μm - figure provided by CiteAb. Source: PMID28865458



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded mouse intestine labeled with Rabbit Anti CD163 Polyclonal Antibody, Unconjugated (ABIN741570) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded Human testis tissue labeled with unconjugated Anti-CD163/M130 Polyclonal Antibody, unconjugated at 1:100 for 40 minutes at 37°C followed by labeling Donkey Anti-Rabbit, Cy3 conjugated 1:300, 60 minutes at 37°C. DAPI nuclear stain employed. Image shows membrane staining of testicular macrophages in the interstitial compartment of the testis, while cells in the seminiferous tubules are negative.

Please check the product details page for more images. Overall 7 images are available for ABIN741570.