

Datasheet for ABIN741577 anti-CD163 antibody (AA 1001-1121) (FITC)

4 Images

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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 conjugated to FITC
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD163/M130
Isotype:	lgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rat
Predicted Reactivity:	Horse
Purification:	Purified by Protein A.
Target Details	
Target:	CD163
Alternative Name:	Cd163/M130 (CD163 Products)

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Target Details	
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:	FCM 1:20-100
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

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Handling	
	handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	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).
	Oh, Riek, Zhang, Williams, Darwech, Bernal-Mizrachi: "Deletion of JNK2 prevents vitamin-D-
	deficiency-induced hypertension and atherosclerosis in mice." in: The Journal of steroid
	biochemistry and molecular biology, Vol. 177, pp. 179-186, (2017) (PubMed).
	Weng, Sprague, Oh, Riek, Chin, Garcia, Bernal-Mizrachi: "Vitamin D deficiency induces high blood
	pressure and accelerates atherosclerosis in mice." in: PLoS ONE , Vol. 8, Issue 1, pp. e54625, (

2013) (PubMed).



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Flow Cytometry

Image 1. Osteopontin (OPN) drives enhancement in macrophage (M ϕ) M2 polarization and angiogenic capacity. (A) Representative images of protein expression profiles obtained by comprehensive protein array in each M ϕ subset. Red arrowheads indicate OPN. (B) The mRNA expression level of Spp1 relative to glyceraldehyde-3-phosphate dehydrogenase (Gapdh) was analyzed by real-time reverse transcription polymerase chain reaction in each M ϕ subset and was normalized to M ϕ (-), n=6 [***p<0.001 vs. untreated, #p<0.05 vs. interleukin (IL)-10 alone]. (C) The protein expression level of OPN relative to



GAPDH was measured by western blotting and was normalized to M ϕ (-), n=10. Lower panels are typical images of each protein (***p<0.001 vs. untreated, #p<0.05 vs. IL-10 alone). (D) Representative confocal laser scanning immunofluorescence overlay images of OPN (red) and DAPI (blue) in each Mo subset. Scale bar represents 20µm. Images in the right row are magnified regions from white or yellow rectangles in the panels of corresponding groups. Scale bar represents 10µm. (E) Relative mean fluorescence intensity (MFI) of CD163 was measured by FACS analysis in each M
subset. An anti-OPN antibody (Ab) and its isotypematched control Ab were used at 3 µg/mL, n=4 (***p<0.001 vs. untreated, ##p<0.01, #p<0.05 vs. IL-10 alone, p<0.001 vs. IL-10+IL-18). (F) The total areas and lengths of tube-like structures were determined by the Matrigel tube formation assay where b.End5 was cocultured with each Mp subset, n=12 (***p<0.001, **p<0.01, *p<0.05 vs. untreated, #p<0.05 vs. IL-10 alone, p<0.001 vs. IL-10+IL-18). All data are expressed as means±SEM and were analyzed by a one-way ANOVA followed by Tukey's test. - figure provided by CiteAb. Source: PMID29559970

Flow Cytometry

Image 2. Mouse splenocytes probed with Rabbit Anti-CD163/M130 Polyclonal Antibody, FITC Conjugated (ABIN741577) at 1:10 for 30 minutes compared to control unstained cells (blue) and isotype control.

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Flow Cytometry

Image 3. Interleukin (IL)-18 amplifies macrophage (Mφ) M2 polarization and angiogenic capacity. (A) Representative FACS density plots for the expression of CD86 and CD163 in each Mφ subset. Upper, Mφ (-), middle, Mφ [tumor necrosis factor (TNF)- α], lower, M ϕ (IL-10). The numbers in each quartile of the plots are percentages of each cell population. (B) Relative mean fluorescence intensities (MFIs) of CD54, CD86, CD163, and CD206 in each M ϕ subset were measured by FACS analysis, n=3 (***p<0.001, *p<0.05 vs. untreated, ##p<0.01 vs. IL-10 alone). (C) Relative MFI of IL-18Rβ in each Mφ subset was determined by FACS analysis, n=4 (***p<0.001 vs. untreated, ###p<0.001 vs. IL-10 alone). (D,E) The total areas and lengths of tube-like structures measured by the Matrigel tube formation assay where b.End5 was cocultured with each Mp subset, n=6 (***p<0.001, **p<0.01, *p<0.05 vs. untreated, ##p<0.01, #p<0.05 vs. IL-10 alone). (F) Representative pictures of tubelike structures visualized by calcein acetoxymethylester staining. Scale bar represents 100µm. All data are presented as means±SEM and were analyzed by a one-way ANOVA followed by Tukey's test. - figure provided by CiteAb. Source: PMID29559970

Please check the product details page for more images. Overall 4 images are available for ABIN741577.

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