Mouse Anti Rat CD163 Monoclonal Antibody

DMABT-47170MR Mouse(CD163)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Mouse Anti Rat CD163
Immunogen	Rat Spleen cell homogenate
Host	Mouse
Isotype	IgG1
Species	Rat
Clone	FE3
Conjugation	N/A
Applications	IHC, ELISA, FCM, IF, IP, WB
Dilution	IHC: 1/50 - 1/100;FCM: 1/10 - 1/100

PACKAGING

Format	Purified IgG - liquid
Protein Concentration	IgG concentration 0.5 mg/ml
Buffer	Phosphate buffered saline
Storage	Store at +4 °C or at -20 °C if preferred.This product should be stored undiluted.Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Preservative	0.09%Sodium Azide
Shelf Life	18 months from date of despatch.

BACKGROUND

Introduction	CD163 (Cluster of Differentiation 163) is a human protein encoded by the CD163 gene. 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.
Keywords	M130; MM130; scavenger receptor cysteine-rich type 1 protein M130; OTTHUMP00000238617; OTTHUMP00000238618; CD163 Molecule; OTTHUMP00000238619; OTTHUMP00000238620; hemoglobin scavenger receptor; macrophage-associated antigen; CD163

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