Mouse Anti Rat CD163 Monoclonal Antibody, Biotin

DMABT-47168MR Mouse(CD163)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Mouse Anti Rat CD163,Biotin
Immunogen	Rat Spleen cell homogenate
Host	Mouse
Isotype	IgG1
Species	Rat
Clone	FE3
Conjugation	Biotin
Applications	FCM,
Dilution	FCM: Neat - 1/10

PACKAGING

Format	Purified IgG conjugated to Biotin - liquid
Protein Concentration	IgG concentration 0.1 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 Azide1%Bovine Serum Albumin
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

45-16 Ramsey Road Shirley, NY 11967, USA
Tel: 631-624-4882 ·Fax:631-614-7828
E-mail: info@creative-diagnostics.com
www.creative-diagnostics.com