

## Mouse Anti Rat CD163 Monoclonal Antibody, FITC

DMABT-47169MR Mouse(CD163)

Lot. No. (See product label)

### PRODUCT INFORMATION

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

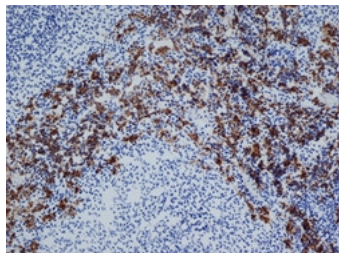
### PACKAGING

<b>Format</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
<b>Protein Concentration</b>	IgG concentration 0.1 mg/ml
<b>Buffer</b>	Phosphate buffered saline
<b>Storage</b>	Store at +4 °C or at -20 °C if preferred. This product should be stored undiluted.Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Preservative</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Shelf Life</b>	18 months from date of despatch.

### BACKGROUND

<b>Introduction</b>	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.
<b>Keywords</b>	M130; MM130; scavenger receptor cysteine-rich type 1 protein M130; OTTHUMP00000238617; OTTHUMP00000238618; CD163 Molecule; OTTHUMP00000238619; OTTHUMP00000238620; hemoglobin scavenger receptor; macrophage-associated antigen; CD163

### IMAGES



Staining of rat peritoneal macrophages with Mouse anti Rat CD163: FITC