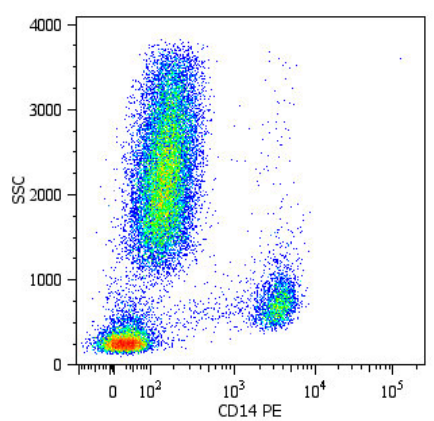
CD14 monoclonal antibody, clone MEM-15 (PE)

Catalog # MAB5064 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with CD14 monoclonal antibody, clone MEM-15 (PE) (Cat # MAB5064).

Specification

Product Description	Mouse monoclonal antibody raised against native CD14.
Immunogen	Native purified human CD14.
Host	Mouse
Theoretical MW (kDa)	53-55
Reactivity	Human, Primates
Specificity	This antibody reacts with CD14, a 53-55 KDa GPI (glycosylphosphatidylinositol)-linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages. This antibody also reacts with soluble forms of CD14 found in serum and in the urine of some nephrotic patients.
Form	Liquid
Conjugation	PE
Isotype	IgG1

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Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Surface staining of human peripheral blood cells with CD14 monoclonal antibody, clone MEM-15 (PE) (Cat # MAB5064).

Gene Info — CD14

Entrez GeneID	929
Gene Name	CD14
Gene Alias	-
Gene Description	CD14 molecule
Omim ID	158120
Gene Ontology	Hyperlink
Gene Summary	CD14 is a surface protein preferentially expressed on monocytes/macrophages. It binds lipopolys accharide binding protein and recently has been shown to bind apoptotic cells. Alternative splicin g results in multiple transcript variants encoding the same isoform. [provided by RefSeq
Other Designations	CD14 antigen|monocyte differentiation antigen CD14

Publication Reference

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- Soluble CD14 discriminates slight structural differences between lipid as that lead to distinct host cell activation.

  Asai Y, Makimura Y, Kawabata A, Ogawa T.

  Journal of Immunology 2007 Dec; 179(11):7674.

- Soluble CD14: role in atopic disease and recurrent infections, including otitis media.

  Karin C Lodrup Carlsen, Berit Granum.

  Current Allergy and Asthma Reports 2007 Nov; 7(6):436.

  Application: Flow Cyt, Human, Human amniotic fluid, Human breast milk, Human bronchoalveolar lavage, Human cerebrospinal fluid, Human serum, Human synovial fluid

- Biochemical characterization of a soluble form of the 53-kDa monocyte surface antigen.

  Bazil V, Horejsi V, Baudys M, Kristofova H, Strominger JL, Kostka W, Hilgert I.

  European Journal of Immunology 1986 Dec; 16(12):1583.

Pathway

- Hematopoietic cell lineage
- MAPK signaling pathway
- Pathogenic Escherichia coli infection - EHEC
- Regulation of actin cytoskeleton
- Toll-like receptor signaling pathway

Disease

- Abortion
- Abscess
- Acute Disease
- Adenocarcinoma
- Aggressive Periodontitis
- Airway Obstruction

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- Alcoholism
- Alveolar Bone Loss
- Alzheimer disease
- Amyloidosis
- Anaphylaxis
- Angina
- Angina Pectoris
- Appendicitis
- Arteriosclerosis
- Arthritis
- Asthma
- Atherosclerosis
- Atrophy
- Bacteremia
- Biliary Atresia
- Birth Weight
- Brain Ischemia
- Bronchial Hyperreactivity
- Bronchiolitis
- Brucellosis
- Burns
- Cadaver
- Calcinosis
- Campylobacter Infections
- Cardiovascular Diseases
- Carotid Artery Diseases

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- Carotid Stenosis
- Celiac Disease
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chlamydia Infections
- Chlamydophila Infections
- Cholestasis
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Colitis
- Colorectal Neoplasms
- Communicable Diseases
- Conjunctivitis
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Critical Illness
- Crohn Disease
- Cystic fibrosis
- Cytomegalovirus Infections
- Dermatitis

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- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Eczema
- Edema
- Encephalitis
- Enterocolitis
- Enterovirus Infections
- Eosinophilia
- Erythema Nodosum
- Esophageal Neoplasms
- Fallopian Tube Diseases
- Familial Mediterranean fever
- Fetal Diseases
- Fetal Membranes
- Food Hypersensitivity
- Gastritis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glomerulonephritis
- Graft vs Host Disease
- Gram-Negative Bacterial Infections
- Guillain-Barre Syndrome
- Helicobacter Infections
- Hepatic Encephalopathy

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- Hepatitis B
- Hepatitis C
- Herpesviridae Infections
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Intracranial Arteriosclerosis
- Ischemia
- Kidney Diseases
- Kidney Failure
- Leukemia
- Liver Cirrhosis
- Liver Diseases
- Lung Diseases
- Lung Neoplasms
- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Meningococcal Infections
- Migraine Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Organ Failure

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- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Narcolepsy
- Nasal Obstruction
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Otitis Media
- Pancreatic Neoplasms
- Pancreatitis
- Parkinson disease
- Periapical Periodontitis
- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Peripheral Vascular Diseases
- Pneumococcal Infections
- Pneumonia
- Pouchitis
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects

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- Prostatic Neoplasms
- Proteinuria
- Pseudomonas Infections
- Psoriasis
- Puerperal Disorders
- Pulmonary Disease
- Recurrence
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Rhinitis
- Sarcoidosis
- Schizophrenia
- Sepsis
- Severe Acute Respiratory Syndrome
- Shock
- Skin Diseases
- Spondylarthropathies
- Spondylitis
- Stomach Neoplasms
- Streptococcal Infections
- Stroke
- Syndrome
- Systemic Inflammatory Response Syndrome
- Thromboangiitis Obliterans
- Thrombosis
- Tooth Diseases

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- Toxoplasmosis
- Trachoma
- Tuberculosis
- Urinary Bladder Neoplasms
- Vaginosis
- Werner syndrome
- Wounds
- Wounds and Injuries

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