IL4 monoclonal antibody, clone MP4-25D2

Catalog # MAB3293 Size 500 ug

Specification

Product Description	Rat monoclonal antibody raised against recombinant IL4.
Immunogen	Recombinant protein corresponding to human IL4.
Host	Rat
Reactivity	Human
Specificity	human Interleukin-4 (IL-4) The MP4-25D2 antibody has been reported to cross react with IL-4 from R hesus monkeys. This antibody has also been reported to be useful for epitope mapping of human IL-4.2 This is a neutralizing antibody.
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (1-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.2
Storage Instruction	Store at 4°C.

Applications

- Immunofluorescence
- Flow Cytometry

Gene Info — IL4

Entrez GeneID	3565

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Gene Name	IL4
Gene Alias	BCGF-1, BCGF1, BSF1, IL-4, MGC79402
Gene Description	interleukin 4
Omim ID	147780
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	B cell growth factor 1|B_cell stimulatory factor 1|lymphocyte stimulatory factor 1

Publication Reference

- Immunochemical mapping of domains in human interleukin 4 recognized by neutralizing monoclonal antibodies.

  Ramanathan L, Ingram R, Sullivan L, Greenberg R, Reim R, Trotta PP, Le HV.

  Journal of Biochemistry 1993 Apr; 32(14):3549.

- Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples.

  Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE.

  Immunological Reviews 2006 Jun; 127:5.

  Application: Blocking, Det Ab, ELISA, Human, Supernatants from cells cultured and stimulated ex vivo with different agents and biological fluids like sera/plasma, bronehoalveolar lavage, ascites, urines, cerebrospinal fluids, saliva, and sputa.

- Development of polyclonal and monoclonal antibodies for immunoassay and neutralization of human interleukin-4.

  Chretien I, Van Kimmenade A, Pearce MK, Banchereau J, Abrams JS.

  Journal of Immunological Methods 1989 Feb; 117(1):67.

Pathway

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- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Fc epsilon RI signaling pathway
- Hematopoietic cell lineage
- Jak-STAT signaling pathway
- T cell receptor signaling pathway

Disease

- Abortion
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Aggressive Periodontitis
- AIDS Dementia Complex
- Albuminuria
- Alcoholism
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Arthritis
- Asthma
- Atherosclerosis

- Autoimmune Diseases

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- Bacteremia
- Biliary Tract Neoplasms
- Bone Diseases
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Bronchopulmonary Dysplasia
- Brucellosis
- Cadaver
- Calcinosis
- Candidiasis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease
- Central Nervous System Neoplasms
- Cerebral Infarction
- Cerebrovascular Accident
- Chagas Disease
- Chlamydia Infections
- Cholecystolithiasis
- Choledocholithiasis
- Chorioamnionitis

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- Chronic Disease
- Chronic Periodontitis
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Common Variable Immunodeficiency
- Communicable Diseases
- Conjunctivitis
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cystitis
- Dengue
- Dental Plaque
- Dermatitis
- Dermatomyositis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Drug Hypersensitivity
- Ductus Arteriosus

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- Edema
- Endometriosis
- Enterocolitis
- Epidermal Necrolysis
- Epilepsy
- Esophageal Neoplasms
- Esophagitis
- Fatigue Syndrome
- Fetal Diseases
- Fetal Membranes
- Fibromyalgia
- Food Hypersensitivity
- Gastritis
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Glioblastoma
- Glioma
- Glomerulonephritis
- Gout
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Hashimoto Disease
- Helicobacter Infections
- Hematologic Diseases
- Hemophilia A

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- Hepatitis
- Hepatitis B
- Hepatitis C
- Herpesviridae Infections
- Histiocytosis
- HIV Infections
- Hodgkin Disease
- Hyperglycemia
- Hyperparathyroidism
- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Intervertebral Disk Displacement
- Inversion
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leiomyoma
- Leishmaniasis
- Leptospirosis
- Leukemia

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- Lichen Planus
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Malignant melanoma
- Melanoma
- Meningococcal Infections
- Mental Disorders
- Metabolic Syndrome X
- Metaplasia
- Migraine Disorders
- Mitral Valve Prolapse
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple Trauma

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- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Myositis
- Nasal Polyps
- Neoplasm Invasiveness
- Neoplasms
- Nephrosis
- Nephrotic Syndrome
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis
- Osteolysis
- Osteomyelitis
- Osteoporosis
- Otitis Media
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Paracoccidioidomycosis
- Parasitemia
- Parasitic Diseases
- Parkinson disease
- Pemphigoid

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- Pemphigus
- Peptic Ulcer
- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Placenta Diseases
- Polymyositis
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Prosthesis Failure
- Psoriasis
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Pulmonary Fibrosis
- Purpura
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence

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- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Retinal Vein Occlusion
- Rheumatic Heart Disease
- Rhinitis
- Sarcoidosis
- Sarcoma
- Schistosomiasis japonica
- Schistosomiasis mansoni
- Schizophrenia
- Sciatica
- Scleroderma
- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Shock
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Spondylitis
- Staphylococcal Infections
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stroke
- Subacute Sclerosing Panencephalitis

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- Sudden Infant Death
- Temporal Arteritis
- Thoracic Neoplasms
- Trachoma
- Trypanosomiasis
- Tuberculosis
- Urinary Bladder Neoplasms
- Urticaria
- Uterine Neoplasms
- Vaginosis
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia
- Werner syndrome

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