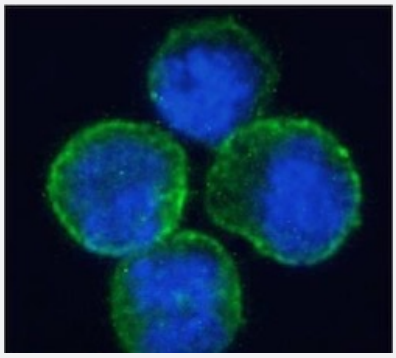
RecomAb™

CD40 recombinant monoclonal antibody, clone 5D12

Catalog # RAB03266 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of Daudi cells with CD40 recombinant monoclonal antibody, clone 5D12 (Cat # RAB03266).
Daudi cells on Shi-fix™ coverslips- permewith 0.15% Triton and stained with the chimeric r version of RAB03266 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (1 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was stained with an anti-Fluorescein antibody (0) followed by Alexa Fluor® 488 secondary antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CD40.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against sf9 insect cells expressing recombinant human CD40.
Reactivity	Crab-eating macaque, Human, Marmoset
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG kappa

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Recommend Usage	Blocking ELISA Flow Cytometry Immunofluorescence Immunohistochemistry Immunoprecipitation Surface Plasmon Resonance The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% Proclin 300)
Storage Instruction	Store at 4°C for 3 months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry
- Immunofluorescence

  Immunofluorescent staining of Daudi cells with CD40 recombinant monoclonal antibody, clone 5D12 (Cat # RAB03266). Daudi cells on Shi-fix™ coverslips- permewith 0.15% Triton and stained with the chimeric r version of RAB03266 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (1 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was stained with an anti-Fluorescein antibody (0) followed by Alexa Fluor® 488 secondary antibody.
- Flow Cytometry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Blocking
- Surface Plasmon Resonance

Gene Info — CD40

Entrez GeneID	958
Gene Name	CD40
Gene Alias	Bp50, CDW40, MGC9013, TNFRSF5, p50

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Gene Description	CD40 molecule, TNF receptor superfamily member 5
Omim ID	109535 606843
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor ha s been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and ger minal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transdu ction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-indu ced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogene sis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	B cell surface antigen CD40|B cell-associated molecule|CD40 antigen|CD40 antigen (TNF recept or superfamily member 5)|CD40 type II isoform|CD40L receptor|OTTHUMP00000031699|OTTHU MP00000031700|nerve growth factor receptor-related B-lymphocyte activation mol

Pathway

- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Cytokine-cytokine receptor interaction
- Primary immunodeficiency
- Systemic lupus erythematosus
- Toll-like receptor signaling pathway

Disease

- Arthritis
- Asthma
- Atherosclerosis

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- Autoimmune Diseases
- Brain Ischemia
- Bronchiolitis
- Calcinosis
- Cardiovascular Diseases
- Colitis
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Drug Eruptions
- Edema
- Endometriosis
- Genetic Predisposition to Disease
- Graves Disease
- Hashimoto Disease
- Hematologic Diseases
- Hepatitis B
- Hodgkin Disease
- Hypertension
- Infant
- Inflammation
- Kidney Failure
- Lung Neoplasms

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- Lymphoma
- Lymphoproliferative Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Occupational Diseases
- Pemphigus
- Pulmonary Disease
- Recurrence
- Respiratory Syncytial Virus Infections
- Rupture
- Stroke
- Thyroiditis
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Werner syndrome

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