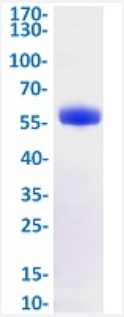
Bioactive HuPro®

CD40 (Human) Recombinant Protein

Catalog # P6754 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CD40 (NP_001241.1, 21 a.a. - 193 a.a.) partial recombinant protein with a Fc, 6×His tag at t he C-terminus expressed in HEK293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 97% (determined by SDS-PAGE)
Endotoxin Level	< 0.1 EU/ug of protein (determined by LAL method)

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Activity	Measured by the binding ability in a functional ELISA. Immobilized recombinant human CD40 Ligand at 2 ug/mL (100 uL/well) can bind recombinant human CD40 with a linear range of 224-898 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Storage Instruction	Store at -80°C on dry atmosphere, lyophilized antibodies are stable at least 2 years. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — CD40

Entrez GeneID	958
Protein Accession#	P25942-1
Gene Name	CD40
Gene Alias	Bp50, CDW40, MGC9013, TNFRSF5, p50
Gene Description	CD40 molecule, TNF receptor superfamily member 5
Omim ID	109535 606843
Gene Ontology	Hyperlink

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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
- Autoimmune Diseases
- Brain Ischemia
- Bronchiolitis

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- 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
- Lymphoma
- Lymphoproliferative Disorders
- Mucocutaneous Lymph Node Syndrome

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- 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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