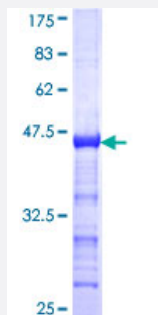


MHC2TA (Human) Recombinant Protein (Q01)

Catalog # H00004261-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MHC2TA partial ORF (NP_000237, 39 a.a. - 148 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NSDADPLCLYHFYDQMDLAGEEEEIELYSEPDTDTINCDQFSRLLCDMEGDEETREAYANIAELDQY VFQDSQLEGLSKDIFKHIGPDEVIGESMEMPAEVGQKSQKRFPF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (83); Rat (80)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CIITA

Entrez GeneID [4261](#)

GeneBank Accession# [NM_000246](#)

Protein Accession# [NP_000237](#)

Gene Name CIITA

Gene Alias C2TA, CIITAN, MHC2TA, NLRA

Gene Description class II, major histocompatibility complex, transactivator

Omim ID [126200](#) [180300](#) [209920](#) [600005](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein with an acidic transcriptional activation domain, 4 LRRs (leucine-rich repeats) and a GTP binding domain. The protein is located in the nucleus and acts as a positive regulator of class II major histocompatibility complex gene transcription, and is referred to as the "master control factor" for the expression of these genes. The protein also binds GTP and uses GTP binding to facilitate its own transport into the nucleus. Once in the nucleus it does not bind DNA but rather uses an intrinsic acetyltransferase (AT) activity to act in a coactivator-like fashion. Mutations in this gene have been associated with bare lymphocyte syndrome type II (also known as hereditary MHC class II deficiency or HLA class II-deficient combined immunodeficiency), increased susceptibility to rheumatoid arthritis, multiple sclerosis, and possibly myocardial infarction. [provided by RefSeq]

Other Designations MHC class II transactivator type III|NLR family, acid domain containing|class II transactivator|nucleotide-binding oligomerization domain, leucine rich repeat and acid domain containing

Pathway

- [Antigen processing and presentation](#)
- [Primary immunodeficiency](#)

Disease

- [Acute Disease](#)
- [Addison Disease](#)
- [Adrenal Insufficiency](#)
- [Albuminuria](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hypertension](#)
- [Kidney Failure](#)

- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Myocardial Infarction](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Roseolovirus Infections](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Syndrome](#)
- [Thyroiditis](#)
- [Tobacco Use Disorder](#)
- [Wegener Granulomatosis](#)