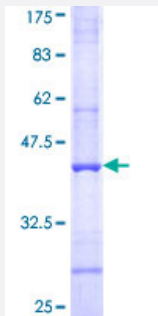


C4B (Human) Recombinant Protein (Q02)

Catalog # H00000721-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human C4B partial ORF (NP_000343, 774 a.a. - 873 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VRSFFPENWLWRVETVDRFQILTLWLPDSLTTWEIHGLSLSKTKGLCVATPVQLRVFREFHLHLRL PMSVRRFEQLELRPVLYNYLDKNLTVSVHVSPVE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (75); Rat (83)
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 — C4B

Entrez GeneID	721
GeneBank Accession#	NG_004658
Protein Accession#	NP_000343
Gene Name	C4B
Gene Alias	C4A, C4A13, C4A91, C4B1, C4B12, C4B2, C4B3, C4B5, C4F, CH, CO4, CPAMD3, FLJ60561, MGC164979
Gene Description	complement component 4B (Chido blood group)
Omim ID	120820
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the basic form of complement factor 4, part of the classical activation pathway . The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. In addition, this gene exists as a long form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retrovirus in intron 9. [provided by RefSeq]
Other Designations	Chido form of C4 OTTHUMP00000029269 basic C4 complement C4B1a complement component 4B complement component 4B (Chido blood group)

Publication Reference

- [Human and mouse single-nucleus transcriptomics reveal TREM2-dependent and TREM2-independent cellular responses in Alzheimer's disease.](#)

Zhou Y, Song WM, Andhey PS, Swain A, Levy T, Miller KR, Poliani PL, Cominelli M, Grover S, Gilfillan S, Cella M, Ulland TK, Zaitsev K, Miyashita A, Ikeuchi T, Sainouchi M, Kakita A, Bennett DA, Schneider JA, Nichols MR, Beausoleil SA, Ulrich JD, Holtzman DM, Artyomov MN, Colonna M.

Nature Medicine 2020 Jan; 26(1):131.

Application: Func, Recombinant protein

Pathway

- [Complement and coagulation cascades](#)
- [Systemic lupus erythematosus](#)

Disease

- [Adrenal hyperplasia](#)
- [Alzheimer disease](#)
- [Angina Pectoris](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Autoimmune Diseases](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Disorders](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)

- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Opportunistic Infections](#)
- [Osteoporosis](#)
- [Recurrence](#)