SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Antibody Discovery - Human Complement Component C2 (21-752) Membrane Protein, Partial, -His tag

Cat. No.: **MP1069F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human Complement Component C2 (21-752). It has been tested in SDS-PAGE, SEC-SEC-MALS. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
Complement Component C2

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 83.0 kDa. The protein migrates as 95-115 kDa under reducing (R) condition (SDS-PAGE) due to Glycosylation.

Sequence
AA Ala 21 - Leu 752 (Accession # P06681-1).

Product Description

Application
SDS-PAGE, SEC-SEC-MALS

Expression Systems
HEK293

Tag
His tag at the C-terminus

Protein Format
Soluble

Form
LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>90% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Buffer

Lyophilized from 0.22 μm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

Complement Component C2

Full Name

complement C2

Introduction

Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.

Alternative Names

CO2; ARMD14; complement C2; C3/C5 convertase; complement component 2; complement component C2

Gene ID

717

UniProt ID

P06681