

## Recombinant Human CD59 Protein, GST-Tagged

**Cat. No.** CD59-0836H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human CD59 full-length ORF (NP_000602.1, 1 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Wheat Germ   |
| <b>Description</b>      | This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 40.6 kDa   |
| <b>AA Sequence</b>      | MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAG<br>LQVYNKCWKFEHCNFNDVTTTRLRENELTYCCKKDL CNFNEQLENGGTSLSSEKTVL<br>LLVTPFLAAAWSLHP   |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** CD59 CD59 molecule, complement regulatory protein [ Homo sapiens ]

**Official Symbol** CD59

**Synonyms**

CD59; CD59 molecule, complement regulatory protein; CD59 antigen p18 20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59 antigen, complement regulatory protein, MIC11, MIN1, MIN2, MIN3, MSK21; CD59 glycoprotein; 16.3A5; EJ16; EJ30; EL32; G344; p18 20; protectin; 1F5 antigen; MEM43 antigen; Ly-6-like protein; T cell-activating protein; human leukocyte antigen MIC11; lymphocytic antigen CD59/MEM43; 20 kDa homologous restriction factor; membrane inhibitor of reactive lysis; membrane attack complex inhibition factor; membrane attack complex (MAC) inhibition factor; surface antigen recognized by monoclonal 16.3A5; CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344); 1F5; MIN1; MIN2; MIN3; MIRC; HRF20; MACIF; MEM43; MIC11; MSK21; HRF-20; MAC-IP; p18-20; MGC2354; FLJ38134; FLJ92039;

**Gene ID** 966

**mRNA Refseq** NM\_000611

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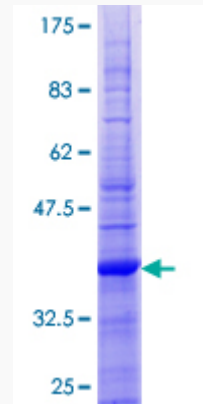
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**Protein Refseq** NP\_000602

**MIM** 107271

**UniProt ID** P13987

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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