abcam

Product datasheet

Recombinant Rat Factor I/CFI protein (Tagged) ab267985

Description

Product name	Recombinant Rat Factor I/CFI protein (Tagged)
Purity	> 85 % SDS-PAGE.
Expression system	Mammalian
Accession	Q9WUW3
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	KNTPASGQPQEDLVEQKCLLKNYTHHSCDKVFCQPWQK CIEGTCACKLPY QCPKAGTPVCATNGRGYPTYCHLKSFECLHPEIKFSNNGT CTAEEKFNVS LIYGSTDTEGIVQVKLVDQDEKMFICKNSWSTVEANVACF DLGFPLGVRD IQGRFNIPVNHKINSTECLHVRCQGVETSLAECTFTKKSSK APHGLAGVV CYTQDADFPTSQSFQCVNGKRIPQEKACDGVNDCGDQS DELCCKGCRGQA FLCKSGVCIPNQRKCNGEVDCITGEDESGCEEDKKNKIHK GLARSDQGGE TEIETEETEMLTPDMDTERKRIKSLLPKLSCGVKRNTHIRR KRVVGGKPA EMGDYPWQVAIKDGDRITCGGIYIGGCWILTAAHCVRPSRY RNYQVWTSL LDWLKPNSQLAVQGVSRVVVHEKYNGATYQNDIALVEMK KHPGKKECELI NSVPACVPWSPYLFQPNDRCIISGWGREKDNQKVYSLRW GEVDLIGNCSR FYPGRYYEKEMQCAGTSDGSIDACKGDSGGPLVCKDVN NVTYVWGIVSWG ENCGKPEFPGVYTRVASYFDWISYYVGRPLVSQYNV
Predicted molecular weight	66 kDa

Amino acids	19 to 604
Tags	Myc tag C-Terminus , 10x HIS tag N-Terminus
Additional sequence information	Mature chain N-terminal 10xHis-tagged and C-terminal Myc-tagged

Specifications

Our **Abpromise guarantee** covers the use of **ab267985** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 50% Glycerol (glycerin, glycerine), 50% Tris buffer

General Info

Function	Responsible for cleaving the alpha-chains of C4b and C3b in the presence of the cofactors C4-binding protein and factor H respectively.
Tissue specificity	Plasma.
Involvement in disease	Defects in CFI are a cause of susceptibility to hemolytic uremic syndrome atypical type 3 (AHUS3) [MIM:612923]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype. Defects in CFI are the cause of complement factor I deficiency (CFI deficiency) [MIM:610984]. CFI deficiency is an autosomal recessive condition associated with a propensity to pyogenic infections.
Sequence similarities	Belongs to the peptidase S1 family. Contains 1 Kazal-like domain. Contains 2 LDL-receptor class A domains. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
Cellular localization	Secreted > extracellular space.

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