abcam

Product datasheet

Recombinant Human eIF4G1 protein (Tagged) ab235068

1 Image

Description

Product name	Recombinant Human eIF4G1 protein (Tagged)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q04637
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	IEEYLHLNDMKEAVQCVQELASPSLLFIFVRHGVESTLERS AIAREHMGQ LLHQLLCAGHLSTAQYYQGLYEILELAEDMEIDIPHVWLYLA ELVTPILQ EGGVPMGELFREITKPLRPLGKAASLLLEILGLLCKSMGPK KVGTLWREA GLSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQRAL PSEELNRQLEK LLKEGSSNQRVFDWIEANLSEQQIVSNTLVRALMTAVCYS AIIFETPLRV DVAVLKARAKLLQKYLCDEQKELQALYALQALVVTLEQPP NLLRMFFDAL YDEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFK WLREAEEESDHN
Predicted molecular weight	47 kDa including tags
Amino acids	1250 to 1599
Tags	His tag N-Terminus
Additional sequence information	N-terminal 10xHis-B2M-JD-tagged and C-terminal Myc-tagged

Specifications

Our **Abpromise guarantee** covers the use of **ab235068** 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

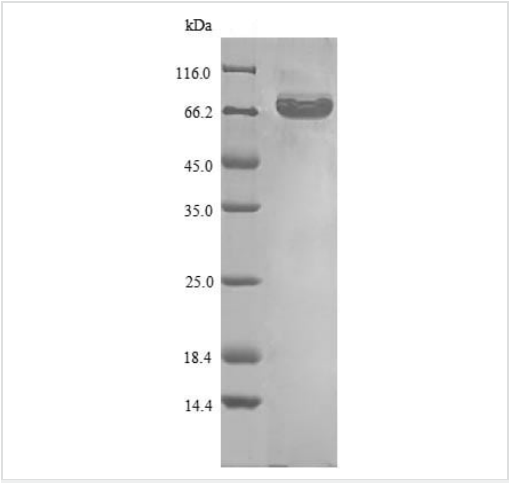
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function	Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome.
Involvement in disease	Defects in EIF4G1 are the cause of Parkinson disease type 18 (PARK18) [MIM:614251]. An autosomal dominant, late-onset form of Parkinson disease. Parkinson disease is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain.
Sequence similarities	Belongs to the eIF4G family. Contains 1 MI domain. Contains 1 MIF4G domain. Contains 1 W2 domain.
Post-translational modifications	Phosphorylated at multiple sites in vivo. Phosphorylation at Ser-1185 by PRKCA induces binding to MKNK1. Following infection by certain enteroviruses, rhinoviruses and aphthoviruses, EIF4G1 is cleaved by the viral protease 2A, or the leader protease in the case of aphthoviruses. This shuts down the capped cellular mRNA transcription.

Images



SDS-PAGE - Recombinant Human eIF4G1 protein (Tagged) (ab235068)

ab235068 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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