Recombinant Human EIF4G1, GST-tagged

Cat. No. EIF4G1-28550TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EIF4G1(1500 a.a. - 1599 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a component of the multi-subunit protein complex EIF4F. This complex facilitates the recruitment of mRNA to the ribosome, which is a rate-limiting step during the initiation phase of protein synthesis. The recognition of the mRNA cap and the ATP-dependent unwinding of 5'-terminal secondary structure is catalyzed by factors in this complex. The subunit encoded by this gene is a large scaffolding protein that contains binding sites for other members of the EIF4F complex. A domain at its N-terminus can also interact with the poly(A)-binding protein, which may mediate the circularization of mRNA during translation. Alternative splicing results in multiple transcript variants, some of which are derived from alternative promoter usage.
Molecular Mass	36.74 kDa
AA Sequence	DVAVLKARAKLLQKYLCDEQKELQALYALQALVVTLEQPPNLLRMFFDALYDEDVVK EDAFYSWESSKDPAEQQG KGVALKSVTAFFKWLREAEEESDHN
Applications	ELISA; WB-Re; AP; Array

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Storage	Store at -80°C. 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	EIF4G1 eukaryotic translation initiation factor 4 gamma, 1 [Homo sapiens (human)]
Official Symbol	EIF4G1
Synonyms	EIF4G1; eukaryotic translation initiation factor 4 gamma, 1; P220; EIF4F; EIF4G; EIF4GI; PARK18; EIF-4G1; eukaryotic translation initiation factor 4 gamma 1; EIF4-gamma; eIF-4-gamma 1; eucaryotic translation initiation factor 4G
Gene ID	1981
mRNA Refseq	NM_182917
Protein Refseq	NP_886553
MIM	600495
UniProt ID	Q04637
Chromosome Location	3q27.1
Pathway	AUF1 (hnRNP D0) destabilizes mRNA; Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S; Antiviral mechanism by IFN-stimulated genes
Function	poly(A) RNA binding; protein binding; translation factor activity, nucleic acid binding

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