



Rabbit Anti-eIF3F antibody

SL3841R

Product Name:	eIF3F
Chinese Name:	真核翻译起始因子3F抗体
Alias:	eIF 3 epsilon; eIF3 p47; eIF3 p47 subunit; EIF3S5; Eukaryotic translation initiation factor 3 subunit 5; Eukaryotic translation initiation factor 3 subunit F; translation initiation factor 3 47 kda subunit; EIF3F_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human eIF3F:112-210/357
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	EIF3F, (also known as eukaryotic translation initiation factor 3 subunit 5, EIF-3 epsilon, and EIF3 p47 subunit), is part of the EIF3 complex, which is composed of at least 12 subunits. It binds the 40S ribosome and promotes the binding of methionyl-tRNA _i and mRNA. It can bind the COP9 signalosome and the 26S proteasome, possibly having regulatory functions in both protein translation and degradation. EIF3F also associates

with the complex p170-EIF3.

Function:

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAⁱ and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Deubiquitinates activated NOTCH1, promoting its nuclear import, thereby acting as a positive regulator of Notch signaling.

Subunit:

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is composed of 13 subunits: EIF3A, EIF3B, EIF3C, EIF3D, EIF3E, EIF3F, EIF3G, EIF3H, EIF3I, EIF3J, EIF3K, EIF3L and EIF3M. The eIF-3 complex appears to include 3 stable modules: module A is composed of EIF3A, EIF3B, EIF3G and EIF3I; module B is composed of EIF3F, EIF3H, and EIF3M; and module C is composed of EIF3C, EIF3D, EIF3E, EIF3K and EIF3L. EIF3C of module C binds EIF3B of module A and EIF3H of module B, thereby linking the three modules. EIF3J is a labile subunit that binds to the eIF-3 complex via EIF3B. The eIF-3 complex interacts with RPS6KB1 under conditions of nutrient depletion. Mitogenic stimulation leads to binding and activation of a complex composed of MTOR and RPTOR, leading to phosphorylation and release of RPS6KB1 and binding of EIF4B to eIF-3. Interacts with RNF139; the interaction leads to protein translation inhibitions in a ubiquitination-dependent manner. Interacts with DTX1, the interaction is required for deubiquitinating activity towards NOTCH1.

Subcellular Location:

Cytoplasm.

Post-translational modifications:

Phosphorylated. Phosphorylation is enhanced upon serum stimulation.

Similarity:

Belongs to the eIF-3 subunit F family.
Contains 1 MPN (JAB/Mov34) domain.

SWISS:

O00303

Gene ID:

8665

Database links:

[Entrez Gene: 8665](#)Human

[Entrez Gene: 66085](#)Mouse

[Entrez Gene: 293427](#)Rat

[Omim: 603914](#)Human

[SwissProt: O00303](#)Human

[SwissProt: Q9DCH4](#)Mouse

[Unigene: 516023](#)Human

[Unigene: 182962](#)Mouse

[Unigene: 41724](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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