

Translation Initiation Complex Antibody Sampler Kit

Cat# AK0274

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

A variety of factors contribute to the important biological event of translation initiation. The Eukaryotic initiation Factor 4E (eIF4E) complex of translation initiation factors binds to the 5' m7 GTP cap to open up the mRNA secondary structure and allow small ribosome subunit binding. eIF4A, an eIF4 complex component that acts as an ATP-dependent RNA helicase, unwinds the secondary structure of the 5' mRNA untranslated region to mediate ribosome binding. EIF4E binds to the mRNA cap structure to mediate the initiation of translation. eIF4E interacts with eIF4G, a scaffold protein that promotes assembly of eIF4E and eIF4A into the eIF4F complex. eIF4B is thought to assist the eIF4F complex in translation initiation. eIF4H induces the RNA-dependent ATP hydrolysis catalyzed by the initiation factors eIF4A and eIF4B. eIF4H was further shown to determine the initial rate and extent of eIF4A-mediated mRNA secondary structure unwinding.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340505	EIF4E Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340217	Phospho-EIF4E (Ser209) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340161	EIF4G1 Polyclonal Antibody	20µL	WB, IHC, ELISA	Human	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120µL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.