



Rabbit Anti-eIF1 antibody

SL13066R

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| Product Name: | eIF1 |
| Chinese Name: | 真核翻译起始因子1抗体 |
| Alias: | A121; eIF1; EIF1_HUMAN; EIF1A; Eukaryotic translation initiation factor 1; ISO1; Protein translation factor SUI1 homolog; SUI1; Sui1iso1. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Pig,Horse, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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: | 13kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human eIF1:41-113/113 |
| 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: | In mammalian cells, translation is controlled at the level of polypeptide chain initiation by initiation factors. Eukaryotic translation initiation factor 1 (eIF1) is crucial for the scanning process in vitro. During the scanning process, eIF1 is a component of a complex involved in recognition of the initiator codon. Translation is also initiated by the role of eIF1 in regulating the activity of ribosomal subunits 43S, 48S and 40S. eIF1 enables 43S ribosomal complexes to discern between cognate and near-cognate |

initiation codons, sensing the nucleotide content of initiation codons. It is also a promoter, along with eukaryotic translation initiation factor 1A (eIF1A), for assembly of 48S ribosomal complexes at the initiation codon of a conventional capped mRNA. In addition, eIF1 and eIF1A, together with eukaryotic translation initiation factor 5 (eIF5), function in the formation of stable 40S ribosomal preinitiation complexes.

Function:

Necessary for scanning and involved in initiation site selection. Promotes the assembly of 48S ribosomal complexes at the authentic initiation codon of a conventional capped mRNA.

Subunit:

Interacts with RENT2.

Similarity:

Belongs to the SUI1 family.

SWISS:

P41567

Gene ID:

10209

Database links:

[Entrez Gene: 420037](#)Chicken

[Entrez Gene: 509764](#)Cow

[Entrez Gene: 10209](#)Human

[Entrez Gene: 20918](#)Mouse

[Entrez Gene: 287703](#)Rat

[SwissProt: P51971](#)Chicken

[SwissProt: Q5E938](#)Cow

[SwissProt: P41567](#)Human

[SwissProt: P48024](#)Mouse

[SwissProt: B0K008](#)Rat

Important Note:

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

