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Anti-eIF3f (RABBIT) Antibody

EIF3F Antibody
Catalog # ASR5355

Specification

Anti-eIF3f (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**This affinity-purified antibody has been tested for use in ELISA, western blot and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 38 kDa in size by western blotting in the appropriate cell lysate or extract.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 100-125 of human eIF3f protein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-eIF3f (RABBIT) Antibody - Additional Information

Gene ID 8665

Other Names
8665

Purity
This affinity-purified antibody is directed against human eIF3f protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with eIF3f protein from human, mouse, rat, chimpanzee, chicken, and bovine based on 100% homology with the immunizing sequence. Partial reactivity is expected against eIF3f from Drosophila melanogaster and Tetraodon nigroviridis (pufferfish) based on 90% homology of the immunizing sequence with eIF3f from these sources. Reactivity against homologues from other sources is not known.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted

liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-eIF3f (RABBIT) Antibody - Protein Information

Name EIF3F {ECO:0000255|HAMAP-Rule:MF_03005}

Function
Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). 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 pre-initiation 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 (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).

Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03005}.

Anti-eIF3f (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-eIF3f (RABBIT) Antibody - Images

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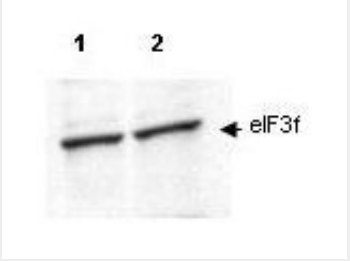

Western blot using Rockland's affinity purified anti-eIF3f antibody shows detection of endogenous eIF3f in lysates from both control HeLa cells (lane 1) and HeLa cells transformed with the kinase cdk11 (lane 2). Cdk11 is responsible for phosphorylating eIF3f in vivo. After SDS-PAGE and transfer, the membrane was probed with the primary antibody diluted to 1:200. This antibody recognizes both phosphorylated and non-phosphorylated eIF3f. Personal Communication, Jiaqi Shi, Univ. Arizona, Tucson, AZ.

Anti-eIF3f (RABBIT) Antibody - Background

eIF3f, also known as eukaryotic translation initiation factor 3 subunit 5, eIF-3 epsilon, and eIF3 p47 subunit, binds to the 40S ribosome and promotes the binding of methionyl-tRNA and mRNA. EIF3f also associates with the complex p170-eIF3. eIF-3 is composed of at least 12 different subunits, eIF3f is one of these subunits.