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# EIF3S5 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2900a

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | O00303 |
| **Other Accession** | Q9DCH4, Q4R5B8 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Mouse, Monkey |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB20536 |
| **Calculated MW** | 37564 |
| **Antigen Region** | 86-115 |

## Additional Information

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| **Gene ID** | 8665 |
| **Other Names** | Eukaryotic translation initiation factor 3 subunit F {ECO:0000255\|HAMAP-Rule:MF_03005}, eIF3f {ECO:0000255\|HAMAP-Rule:MF_03005}, Deubiquitinating enzyme eIF3f, Eukaryotic translation initiation factor 3 subunit 5 {ECO:0000255\|HAMAP-Rule:MF_03005}, eIF-3-epsilon {ECO:0000255\|HAMAP-Rule:MF_03005}, eIF3 p47 {ECO:0000255\|HAMAP-Rule:MF_03005}, EIF3F {ECO:0000255\|HAMAP-Rule:MF_03005} |
| **Target/Specificity** | This EIF3S5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-115 amino acids from the N-terminal region of human EIF3S5. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | EIF3S5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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}. |

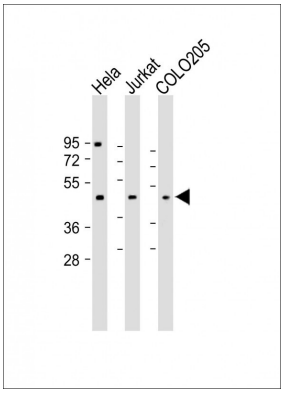
## Background

EIF3F 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-tRNAi 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.

## References

Zhou,M., et.al., Proc. Natl. Acad. Sci. U.S.A. 105 (47), 18139-18144 (2008)

## Images




All lanes : Anti-EIF3S5 Antibody (N-term) at 1:500 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 2: COLO205 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 45kDa Blocking/Dilution buffer: 5% NFDM/TBST.