

**EIF3H Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5401**

**Specification**

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**EIF3H Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O15372</a>
Other Accession	<a href="#">O6P9U8</a> , <a href="#">O91WK2</a> , <a href="#">O5ZLE6</a> , <a href="#">O56JZ5</a> , <a href="#">O5PR67</a> , <a href="#">NP_003747.1</a>
Reactivity	<b>Human, Rat</b>
Predicted	<b>Zebrafish, Bovine, Chicken, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>H=40;M=40;R=40 KDa</b>
Isotype	<b>Rabbit IgG</b>
Antigen Source	<b>HUMAN</b>

**EIF3H Antibody (N-term) - Additional Information**

**Gene ID** 8667

**Antigen Region**  
70-99

**Other Names**

Eukaryotic translation initiation factor 3 subunit H {ECO:0000255|HAMAP-Rule:MF\_03007}, eIF3h {ECO:0000255|HAMAP-Rule:MF\_03007}, Eukaryotic translation initiation factor 3 subunit 3 {ECO:0000255|HAMAP-Rule:MF\_03007}, eIF-3-gamma, eIF3 p40 subunit {ECO:0000255|HAMAP-Rule:MF\_03007}, EIF3H {ECO:0000255|HAMAP-Rule:MF\_03007}

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Target/Specificity**

This EIF3H antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 70-99 amino acids from the N-terminal region of human EIF3H.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

EIF3H Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## EIF3H Antibody (N-term) - Protein Information

**Name** EIF3H {ECO:0000255|HAMAP-Rule:MF\_03007}

### 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:<a href="http://www.uniprot.org/citations/17581632" target="\_blank">17581632</a>, PubMed:<a href="http://www.uniprot.org/citations/25849773" target="\_blank">25849773</a>, PubMed:<a href="http://www.uniprot.org/citations/27462815" target="\_blank">27462815</a>). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl- tRNA<sup>i</sup> 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:<a href="http://www.uniprot.org/citations/17581632" target="\_blank">17581632</a>). 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:<a href="http://www.uniprot.org/citations/25849773" target="\_blank">25849773</a>).

### Cellular Location

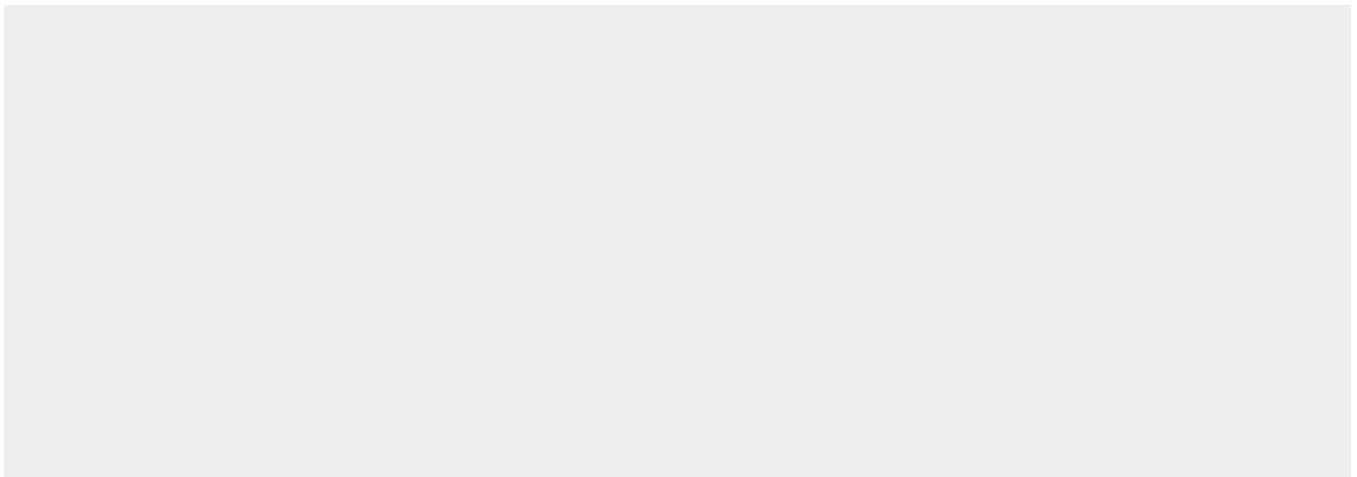
Cytoplasm {ECO:0000255|HAMAP-Rule:MF\_03007}.

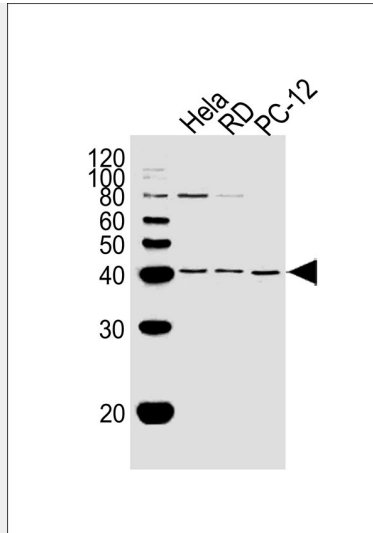
## EIF3H Antibody (N-term) - Protocols

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

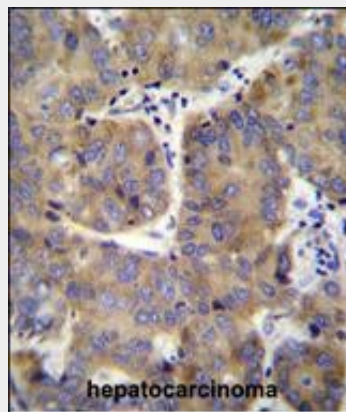
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## EIF3H Antibody (N-term) - Images





All lanes : Anti-EIF3H Antibody (N-term) at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: RD whole cell lysates Lane 3: PC-12 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



EIF3H Antibody (N-term) (Cat. #AW5401) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of EIF3H Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

### EIF3H Antibody (N-term) - Background

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-tRNA<sub>i</sub> 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 posttermination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation.

### EIF3H Antibody (N-term) - References

- Kupfer, S.S., et al. Gastroenterology 139(5):1677-1685(2010)
- Hawken, S.J., et al. Hum. Genet. 128(1):89-101(2010)
- Cappuzzo, F., et al. J Thorac Oncol 4(4):472-478(2009)
- Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)

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