

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

Specification

EIF3H Antibody (N-term) - Product Information

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

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: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

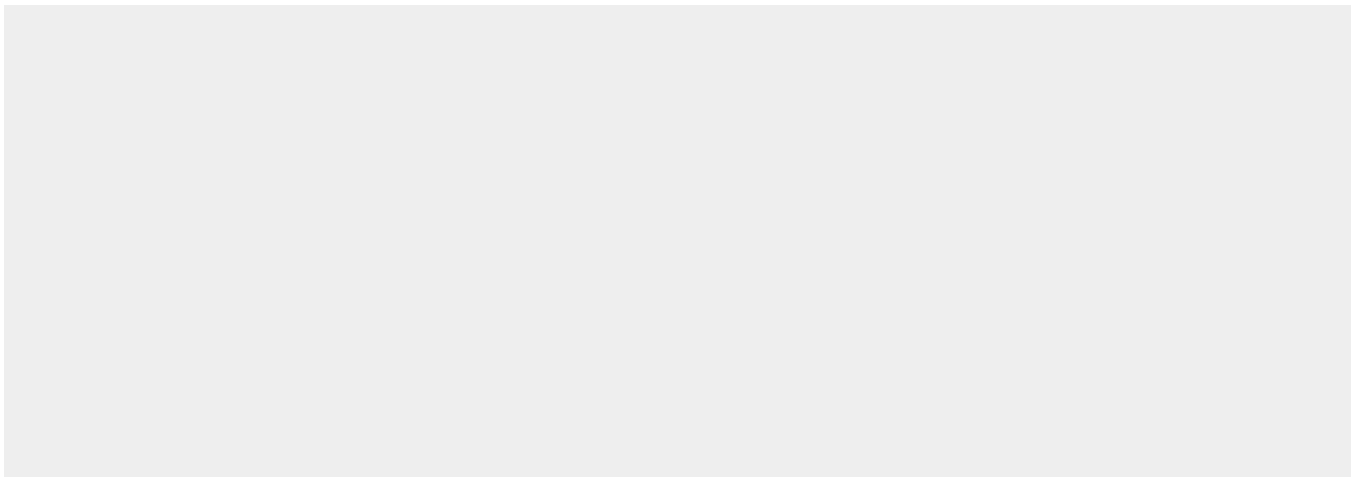
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03007}.

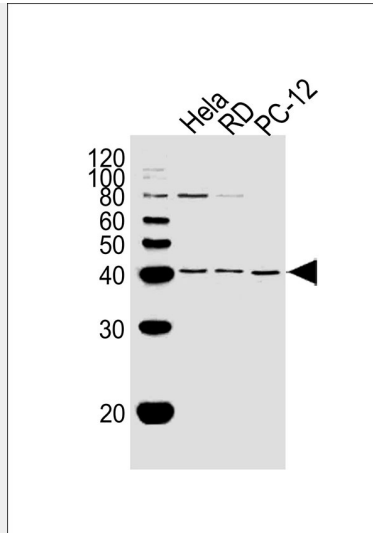
EIF3H Antibody (N-term) - Protocols

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

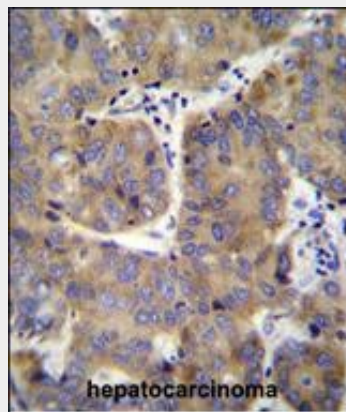
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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-tRNAⁱ 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)