10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EIF3H Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5401

Product Information

Application	IHC-P, WB
Primary Accession	O15372
Other Accession	Q6P9U8, Q91WK2, Q5ZLE6, Q56JZ5, Q5PR67, NP_003747.1
Reactivity	Mouse, Rat, Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39930
Isotype	Rabbit IgG
Antigen Source	HUMAN

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	IHC-P~~1:100~500 WB~~1:1000
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.

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}.

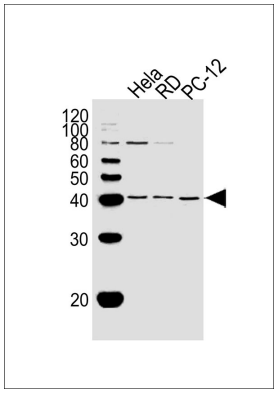
Background

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.

References

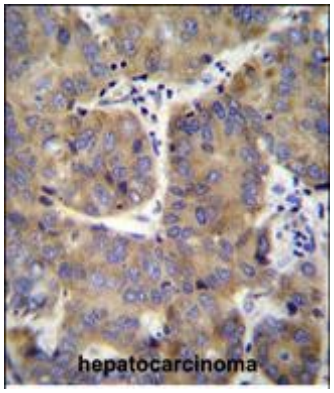
Kupfer, S.S., et al. Gastroenterology 139(5):1677-1685(2010)
Hawken, S.J., et al. Hum. Genet. 128(1):89-101(2010)
Cappuzzo, F., et al. J Thorac Oncol 4(4):472-478(2009)
Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008)

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% NFDM/TBST.

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.