

EIF3S5 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2900a

Product Information

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

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

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}.

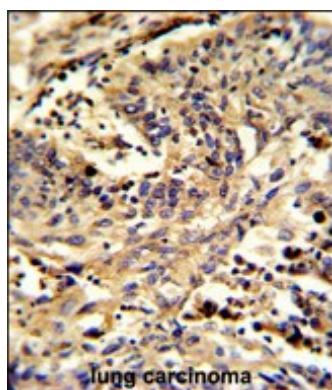
Background

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

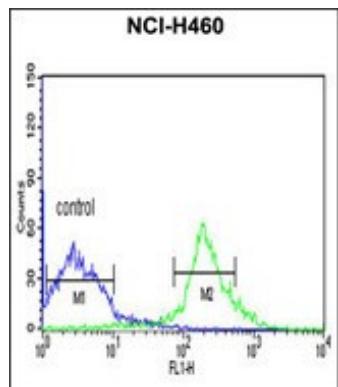
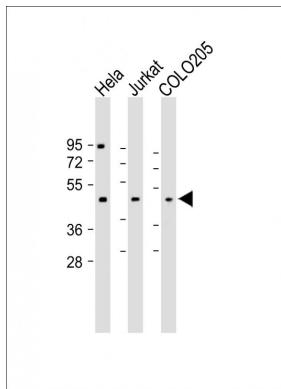
Zhou,M., et.al., Proc. Natl. Acad. Sci. U.S.A. 105 (47), 18139-18144 (2008)

Images



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with EIF3S5 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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.



EIF3S5 Antibody (N-term) (Cat. #AP2900a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.