

EIF3S5 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2900a**Specification**

EIF3S5 Antibody (N-term) - Product Information

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

EIF3S5 Antibody (N-term) - 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~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

EIF3S5 Antibody (N-term) - 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

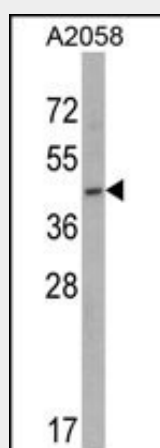
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03005}.

EIF3S5 Antibody (N-term) - Protocols

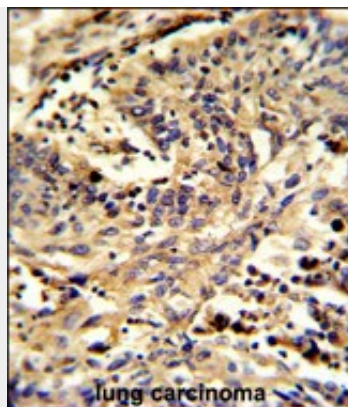
Provided below are standard protocols that you may find useful for product applications.

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

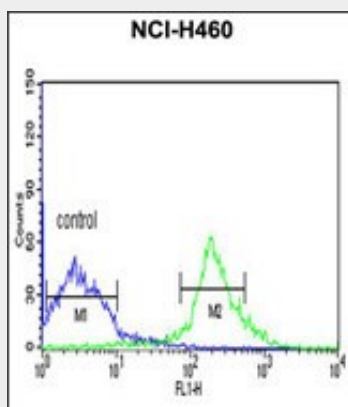
EIF3S5 Antibody (N-term) - Images



Western blot analysis of EIF3S5 Antibody (N-term) (Cat. #AP2900a) in A2058 cell line lysates (35ug/lane). EIF3S5 (arrow) was detected using the purified Pab.



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.



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.

EIF3S5 Antibody (N-term) - 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-tRNA_i 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.

EIF3S5 Antibody (N-term) - References

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