

EIF3A Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12955b**Specification**

EIF3A Antibody (C-term) - Product Information

| | |
|-------------------|---|
| Application | WB, IHC-P,E |
| Primary Accession | Q14152 |
| Other Accession | Q1JU68 , P23116 , NP_003741.1 |
| Reactivity | Human |
| Predicted | Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 166569 |
| Antigen Region | 1219-1247 |

EIF3A Antibody (C-term) - Additional Information**Gene ID** 8661**Other Names**

Eukaryotic translation initiation factor 3 subunit A {ECO:0000255|HAMAP-Rule:MF_03000}, eIF3a {ECO:0000255|HAMAP-Rule:MF_03000}, Eukaryotic translation initiation factor 3 subunit 10 {ECO:0000255|HAMAP-Rule:MF_03000}, eIF-3-theta {ECO:0000255|HAMAP-Rule:MF_03000}, eIF3 p167, eIF3 p180, eIF3 p185, EIF3A {ECO:0000255|HAMAP-Rule:MF_03000}

Target/Specificity

This EIF3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1219-1247 amino acids from the C-terminal region of human EIF3A.

Dilution

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

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

EIF3A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3A Antibody (C-term) - Protein Information

Name EIF3A {ECO:0000255|HAMAP-Rule:MF_03000}

Function RNA-binding 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](#)). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl- tRNA_i 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](#), PubMed:[11169732](#)). 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](#), PubMed:[27462815](#)).

Cellular Location

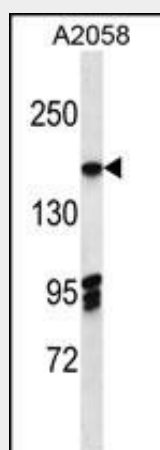
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03000, ECO:0000269|PubMed:9150439}

EIF3A Antibody (C-term) - Protocols

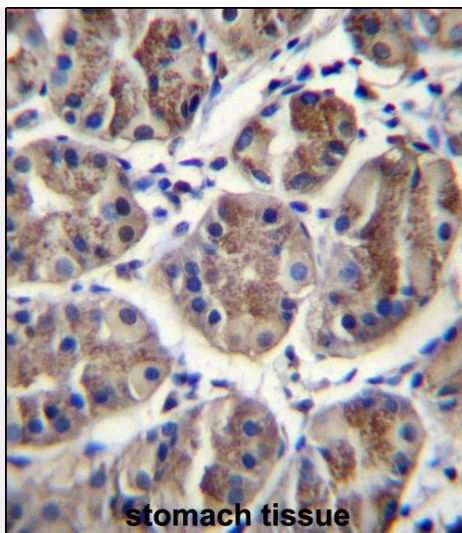
Provided below are standard protocols that you may find useful for product applications.

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

EIF3A Antibody (C-term) - Images



EIF3A Antibody (C-term) (Cat. #AP12955b) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the EIF3A antibody detected the EIF3A protein (arrow).



EIF3A Antibody (C-term) (Cat. #AP12955b) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of EIF3A Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

EIF3A Antibody (C-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_i 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.

EIF3A Antibody (C-term) - References

- Enchev, R.I., et al. Structure 18(4):518-527(2010)
Couch, F.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(1):251-257(2010)
Dong, Z., et al. Exp. Cell Res. 315(11):1889-1894(2009)
Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008)
Martineau, Y., et al. Mol. Cell. Biol. 28(21):6658-6667(2008)