

EIF3CL Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12609a**Specification**

EIF3CL Antibody (N-term) - Product Information

Application	WB, FC, IHC-P,E
Primary Accession	Q99613
Other Accession	B5ME19 , B5DFC8 , Q8R1B4 , Q3SYW6 , NP_001032897.1 , NP_003743.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	105344
Antigen Region	127-155

EIF3CL Antibody (N-term) - Additional Information**Gene ID** 8663**Other Names**

Eukaryotic translation initiation factor 3 subunit C {ECO:0000255|HAMAP-Rule:MF_03002}, eIF3c {ECO:0000255|HAMAP-Rule:MF_03002}, Eukaryotic translation initiation factor 3 subunit 8 {ECO:0000255|HAMAP-Rule:MF_03002}, eIF3 p110 {ECO:0000255|HAMAP-Rule:MF_03002}, EIF3C {ECO:0000255|HAMAP-Rule:MF_03002}

Target/Specificity

This EIF3CL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-155 amino acids from the N-terminal region of human EIF3CL.

Dilution

WB~~1:1000
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

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

EIF3CL Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3CL Antibody (N-term) - Protein Information

Name EIF3C {ECO:0000255|HAMAP-Rule:MF_03002}

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

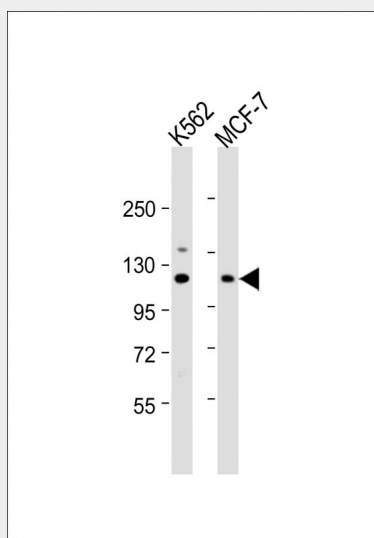
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03002}.

EIF3CL Antibody (N-term) - Protocols

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

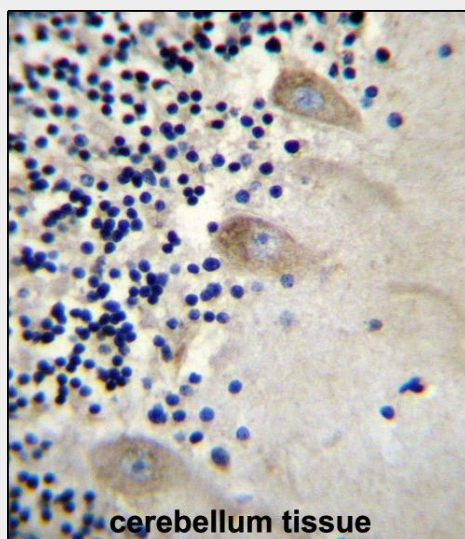
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EIF3CL Antibody (N-term) - Images

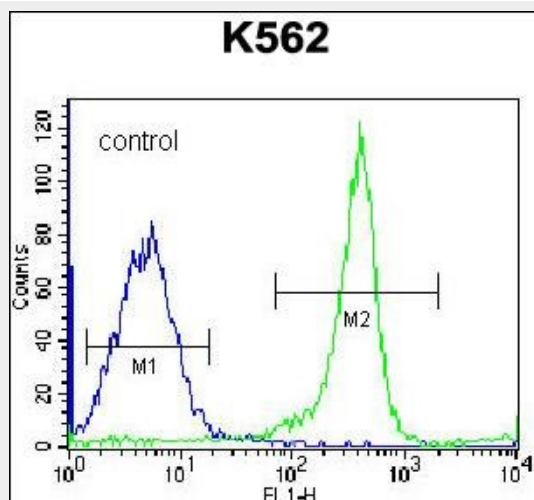


All lanes : Anti-EIF3CL Antibody (N-term) at 1:1000 dilution Lane 1: K562 whole cell lysate Lane 2:

MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 105 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



EIF3CL Antibody (N-term) (Cat. #AP12609a) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of EIF3CL Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



EIF3CL Antibody (N-term) (Cat. #AP12609a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EIF3CL 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-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.

EIF3CL Antibody (N-term) - References

Imielinski, M., et al. Nat. Genet. 41(12):1335-1340(2009)
Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008)
Masutani, M., et al. EMBO J. 26(14):3373-3383(2007)
Damoc, E., et al. Mol. Cell Proteomics 6(7):1135-1146(2007)
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