

EIF2A Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9521c

Specification

EIF2A Antibody (Center) - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P, FC,E |
| Primary Accession | O9BY44 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 64990 |
| Antigen Region | 437-465 |

EIF2A Antibody (Center) - Additional Information

Gene ID 83939

Other Names

Eukaryotic translation initiation factor 2A, eIF-2A, 65 kDa eukaryotic translation initiation factor 2A, Eukaryotic translation initiation factor 2A, N-terminally processed, EIF2A

Target/Specificity

This EIF2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 437-465 amino acids from the Central region of human EIF2A.

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 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

EIF2A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF2A Antibody (Center) - Protein Information

Name EIF2A

Function Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl- tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40S subunits in a GTP-dependent manner.

Tissue Location

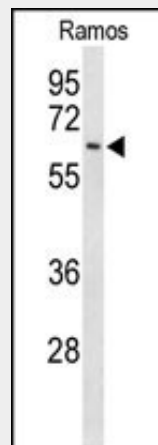
Widely expressed. Expressed at higher level in pancreas, heart, brain and placenta.

EIF2A Antibody (Center) - Protocols

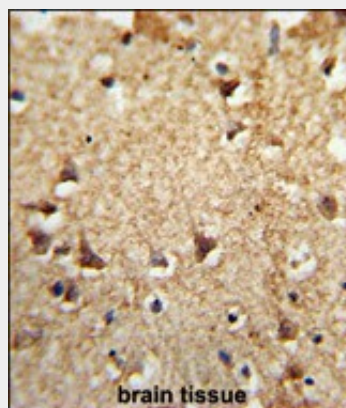
Provided below are standard protocols that you may find useful for product applications.

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

EIF2A Antibody (Center) - Images

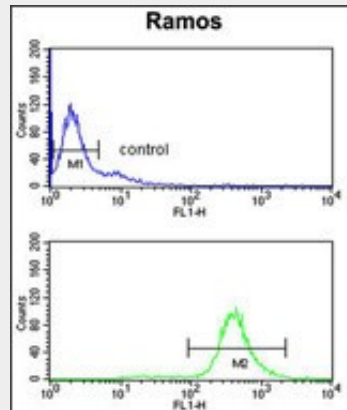


Western blot analysis of EIF2A Antibody (Center) (Cat. #AP9521c) in Ramos cell line lysates (35ug/lane). EIF2A (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with EIF2A Antibody (Center),

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.



EIF2A Antibody (Center) (Cat. #AP9521c) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EIF2A Antibody (Center) - Background

EIF2A is a 65-kD protein that catalyzes the formation of puromycin-sensitive 80S preinitiation complexes (Zoll et al., 2002 [PubMed 12133843]).

EIF2A Antibody (Center) - References

- Willis, K.L., et al. *Virology* 394(1):73-81(2009)
- Spurgeon, M.E., et al. *J. Virol.* 83(19):9970-9982(2009)
- Lu, W., et al. *J. Biol. Chem.* 284(36):24281-24288(2009)
- Yang, J., et al. *Mol. Cell. Biol.* 29(8):2243-2253(2009)
- Schewe, D.M., et al. *Cancer Res.* 69(4):1545-1552(2009)
- Olsen, J.V., et al. *Cell* 127(3):635-648(2006)