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EIF2B1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12415c

Specification

EIF2B1 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q14232
Other Accession	Q4R4V8, NP_001405.1
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33712**
Antigen Region	**136-163**

EIF2B1 Antibody (Center) - Additional Information

Gene ID 1967

Other Names
Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha, EIF2B1, EIF2BA

Target/Specificity
This EIF2B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 136-163 amino acids from the Central region of human EIF2B1.

Dilution
WB~~1:1000
IHC-P~~1:10~50
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
EIF2B1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF2B1 Antibody (Center) - Protein Information

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Name EIF2B1

Synonyms EIF2BA

Function Acts as a component of the translation initiation factor 2B (eIF2B) complex, which catalyzes the exchange of GDP for GTP on eukaryotic initiation factor 2 (eIF2) gamma subunit (PubMed:25858979, PubMed:27023709, PubMed:31048492). Its guanine nucleotide exchange factor activity is repressed when bound to eIF2 complex phosphorylated on the alpha subunit, thereby limiting the amount of methionyl- initiator methionine tRNA available to the ribosome and consequently global translation is repressed (PubMed:25858979, PubMed:31048492).

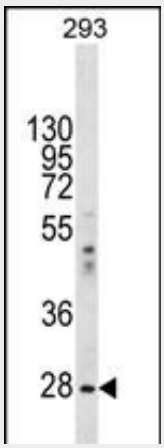
Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9USP0}

EIF2B1 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 Cytomety
- Cell Culture

EIF2B1 Antibody (Center) - Images



EIF2B1 Antibody (Center) (Cat. #AP12415c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the EIF2B1 antibody detected the EIF2B1 protein (arrow).

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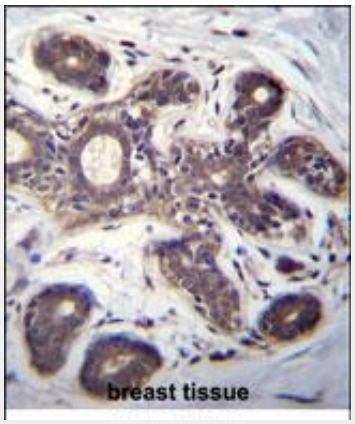
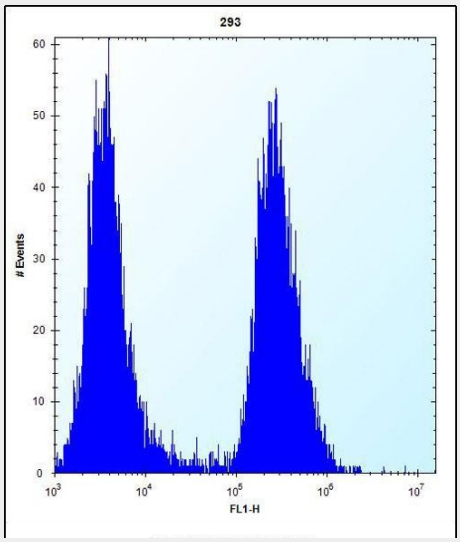


EIF2B1 Antibody (Center) (Cat. #AP12415c)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EIF2B1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



EIF2B1 Antibody (Center) (Cat. #AP12415c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EIF2B1 Antibody (Center) - Background

This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter.

EIF2B1 Antibody (Center) - References

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van der Knaap, M.S., et al. Neuropediatrics 38 (5), 264 (2007) :