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EIF2B3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17027B

Product Information

Application	WB, E
Primary Accession	Q9NR50
Other Accession	Q4R6T3, NP_001160060.1, NP_065098.1
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36806
Calculated MW	50240
Antigen Region	413-441

Additional Information

Gene ID	8891
Other Names	Translation initiation factor eIF-2B subunit gamma, eIF-2B GDP-GTP exchange factor subunit gamma, EIF2B3
Target/Specificity	This EIF2B3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 413-441 amino acids from the C-terminal region of human EIF2B3.
Dilution	WB~~1:1000 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	EIF2B3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EIF2B3
Function	Acts as a component of the translation initiation factor 2B (eIF2B) complex, which catalyzes the exchange of GDP for GTP on the eukaryotic initiation

factor 2 (eIF2) complex 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:P56288}

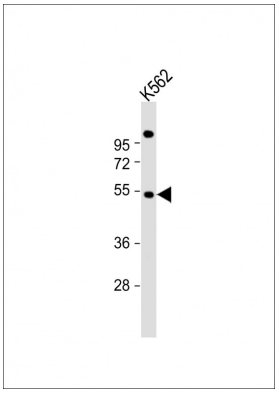
Background

The protein encoded by this gene is one of the subunits of initiation factor eIF2B, which catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP. It has also been found to function as a cofactor of hepatitis C virus internal ribosome entry site-mediated translation. Mutations in this gene have been associated with leukodystrophy with vanishing white matter. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008)
Maletkovic, J., et al. J. Child Neurol. 23(2):205-215(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Mikami, S., et al. Protein Expr. Purif. 46(2):348-357(2006)

Images



Anti-EIF2B3 Antibody (C-term) at 1:1000 dilution + K562 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 : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.