EIF2B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF2B1, Polyclonal Antibody
Full Product Name	EIF2B1, ID (EIF2B1, EIF2BA, Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha) (MaxLight 405)
Product Gene Name	anti-EIF2B1 antibody
Product Synonym Names	EIF2B1; EIF2BA; Translation initiation factor eIF-2B subunit alpha; eIF-2B GDP-GTP exchange factor subunit alpha
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,618 Da
OMIM	603896
3D Structure	ModBase 3D Structure for Q14232
Immunogen	EIF2B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-163 amino acids from the Central region of human EIF2B1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-EIF2B1 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF2B1 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-EIF2B1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF2B1 antibody	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.
Product References and Citations for anti-EIF2B1 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Hiyama, T.B., et al. J. Mol. Biol. 392(4):937-951(2009). Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008). van der Knaap, M.S., et al. Neuropediatrics 38 (5), 264 (2007).

Other Notes	Small volumes of anti-EIF2B1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EIF2B1 purchase	MBS6294879 is an antibody targeting EIF2B1. Also known as EIF2B1, ID (EIF2B1, EIF2BA, Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF2B1. It may not necessarily be applicable to this product.

NCBI GI #	4503503
NCBI GeneID	1967
NCBI Accession #	NP_001405.1
UniProt Primary Accession #	Q14232
UniProt Secondary Accession #	Q3SXP4; A6NLY9; B4DGX0
UniProt Related Accession #	Q14232
GenBank Nucleotide #	NM_001414.3
NCBI Official Full Name	translation initiation factor eIF-2B subunit alpha
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa
NCBI Official Symbol	EIF2B1
NCBI Official Synonym Symbols	EIF2B; EIF2BA
UniProt Protein Name	Translation initiation factor eIF-2B subunit alpha
UniProt Synonym Protein Names	eIF-2B GDP-GTP exchange factor subunit alpha
Protein Family	Translation initiation factor
UniProt Gene Name	EIF2B1
UniProt Synonym Gene Names	EIF2BA
UniProt Entry Name	EI2BA_HUMAN
NCBI Protein Information	translation initiation factor eIF-2B subunit alpha; eIF-2B GDP-GTP exchange factor subunit alpha

UniProt Comments for EIF2B1	eIF2B-alpha: Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP. Defects in EIF2B1 are a cause of leukodystrophy with vanishing white matter (VWM). VWM is a leukodystrophy that occurs mainly in children. Neurological signs include progressive cerebellar ataxia, spasticity, inconstant optic atrophy and relatively preserved mental abilities. The disease is chronic-progressive with, in most individuals, additional episodes of rapid deterioration following febrile infections or minor head trauma. While childhood onset is the most common form of the disorder, some severe forms are apparent at birth. A severe, early-onset form seen among the Cree and Chippewayan populations of Quebec and Manitoba is called Cree leukoencephalopathy. Milder forms may not become evident until adolescence or adulthood. Some females with milder forms of the disease who survive to adolescence exhibit ovarian dysfunction. This variant of the disorder is called ovarioleukodystrophy. Belongs to the eIF-2B alpha/beta/delta subunits family. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 12q24.31 Cellular Component: eukaryotic translation initiation factor 2B complex; membrane; cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; GDP binding; GTP binding; translation initiation factor activity; guanyl-nucleotide exchange factor activity; S-methyl-5-thioribose-1-phosphate isomerase activity; enzyme regulator activity Biological Process: response to peptide hormone stimulus; translation; cellular response to stimulus; cellular protein metabolic process; methionine salvage; response to heat; translational initiation; response to glucose stimulus; negative regulation of translation initiation in response to stress; gene expression; oligodendrocyte development; regulation of translational initiation; positive regulation of GTPase activity Disease: Leukoencephalopathy With Vanishing White Matter
Research Articles on EIF2B1	**1.** These data emphasize the importance of eIF2Balpha in mediating the eIF2 kinase translation-inhibitory activity and may provide insight into the complex nature of vesiculovirus oncolysis.
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