EIF2B2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF2B2, Polyclonal Antibody
Full Product Name	EIF2B2 (Translation Initiation Factor eIF-2B Subunit beta, S20I15, S20III15, eIF-2B GDP-GTP Exchange Factor Subunit beta, EIF2BB) (MaxLight 550)
Product Gene Name	anti-EIF2B2 antibody
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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human EIF2B2.
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 amo
Molecular Weight	38,990 Da
OMIM	phenotype 606454
3D Structure	ModBase 3D Structure for P49770
Immunogen	Full length human EIF2B2, aa1-351 (NP_055054.1).
Immunogen Sequence	MPGSAAKGSELSERIESFVETLKRGGGPRSSEEMARETLGLLRQIITDHRWSNAGELMELIRREGRRMTAAQPSETTVGNMVRRVLKIIREEYGRLHGRS
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-EIF2B2 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF2B2 antibody	Western Blot (WB)
Application Notes for anti-EIF2B2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-EIF2B2 antibody	MBS6377147 is an antibody targeting EIF2B2. Also known as EIF2B2 (Translation Initiation Factor eIF-2B Subunit beta, S20I15, S20III15, eIF-2B GDP

Other Notes	Small volumes of anti-EIF2B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF2B2. It may not necessarily be applicable to this product.

NCBI GI #	7657058
NCBI GeneID	8892
NCBI Accession #	NP_055054.1
UniProt Primary Accession #	P49770
UniProt Secondary Accession #	O43201
UniProt Related Accession #	P49770
GenBank Nucleotide #	NM_014239.2
NCBI Official Full Name	translation initiation factor eIF-2B subunit beta
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa
NCBI Official Symbol	EIF2B2
NCBI Official Synonym Symbols	EIF2B; EIF-2Bbeta
UniProt Protein Name	Translation initiation factor eIF-2B subunit beta
UniProt Synonym Protein Names	S20I15; S20III15; eIF-2B GDP-GTP exchange factor subunit beta
Protein Family	Translation initiation factor
UniProt Gene Name	EIF2B2
UniProt Synonym Gene Names	EIF2BB
UniProt Entry Name	EI2BB_HUMAN
NCBI Protein Information	translation initiation factor eIF-2B subunit beta; S20I15; S20III15; eIF-2B GDP-GTP exchange factor subunit beta
NCBI Summary for EIF2B2	This gene encodes the beta subunit of eukaryotic initiation factor-2B (EIF2B). EIF2B is involved in protein synthesis and exchanges GDP and GTP for its activation and deactivation. [provided by RefSeq, Aug 2011]
UniProt Comments for EIF2B2	eIF2B-beta: eukaryotic translation initiation factor 2B, subunit 5. A translational regulatory protein that functions in the early steps of protein synthesis by catalyzing the exchange of eukaryotic initiation factor 2-bound GDP for GTP. Mutation in EIF2B5 causes childhood ataxia with central nervous system hypomyelination/ vanishing white matter leukodystrophy. Protein type: Cell development/differentiation; RNA-binding; Translation; GEFs; GEFs, misc. Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: eukaryotic translation initiation factor 2B complex; cytoplasm; cytosol Molecular Function: protein binding; GTP binding; guanyl-nucleotide exchange factor activity; translation initiation factor activity; S-methyl-5-thioribose-1-phosphate isomerase activity; ATP binding Biological Process: myelination; response to peptide hormone stimulus; central nervous system development; translation; cellular response to stimulus; cellular protein metabolic process; ovarian follicle development; methionine salvage; response to heat; translational initiation; response to glucose stimulus; gene expression; oligodendrocyte development; regulation of translational initiation; positive regulation of GTPase activity Disease: Leukoencephalopathy With Vanishing White Matter
Research Articles on EIF2B2	**1.** An Italian patient is described with a c.638A>G mutation in exon 5 of EIF2B2 gene with very slow progressive vanishing white matter disease.

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