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CLN3 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant CLN3.
Catalog # AT1561a

Product Information

Application	WB, E
Primary Accession	Q13286
Other Accession	BC002394
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1G10
Calculated MW	47623

Additional Information

Gene ID	1201
Other Names	Battenin, Batten disease protein, Protein CLN3, CLN3, BTS
Target/Specificity	CLN3 (AAH02394.1, 1 a.a. ~ 438 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CLN3 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

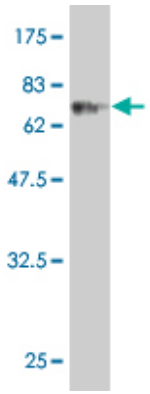
This gene encodes a protein that is involved in lysosomal function. Mutations in this, as well as other neuronal ceroid-lipofuscinosis (CLN) genes, cause neurodegenerative diseases commonly known as Batten disease or collectively known as neuronal ceroid lipofuscinoses (NCLs). Many alternatively spliced transcript variants have been found for this gene.

References

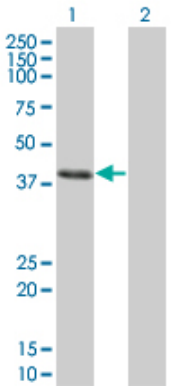
Genotype does not predict severity of behavioural phenotype in juvenile neuronal ceroid lipofuscinosis (Batten disease). Adams HR, et al. Dev Med Child Neurol, 2010 Jul. PMID 20187884.Interaction between Sdo1p and Btn1p in the Saccharomyces cerevisiae model for Batten disease. Vitiello SP, et al. Hum Mol

Genet, 2010 Mar 1. PMID 20015955.Common variants at five new loci associated with early-onset inflammatory bowel disease. Imielinski M, et al. Nat Genet, 2009 Dec. PMID 19915574.Protracted course of juvenile ceroid lipofuscinosis associated with a novel CLN3 mutation (p.Y199X). Sarpong A, et al. Clin Genet, 2009 Jul. PMID 19489875.S. pombe btn1, the orthologue of the Batten disease gene CLN3, is required for vacuole protein sorting of Cpy1p and Golgi exit of Vps10p. Codlin S, et al. J Cell Sci, 2009 Apr 15. PMID 19299465.

Images

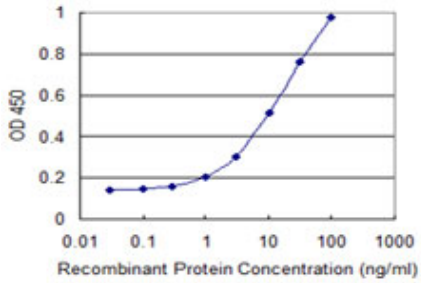


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (73.92 KDa) .



Western Blot analysis of CLN3 expression in transfected 293T cell line by CLN3 monoclonal antibody (M03), clone 1G10.

Lane 1: CLN3 transfected lysate(47.623 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CLN3 is 0.3 ng/ml as a capture antibody.