

## CLN3 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant CLN3.

Catalog # AT1561a

### Specification

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#### CLN3 Antibody (monoclonal) (M03) - Product Information

Application	WB, E
Primary Accession	<a href="#">O13286</a>
Other Accession	<a href="#">BC002394</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	47623

#### CLN3 Antibody (monoclonal) (M03) - 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

#### 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.

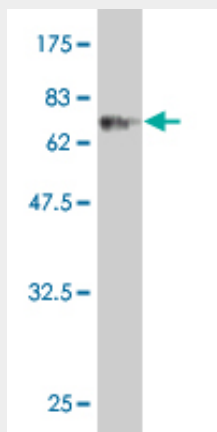
#### CLN3 Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

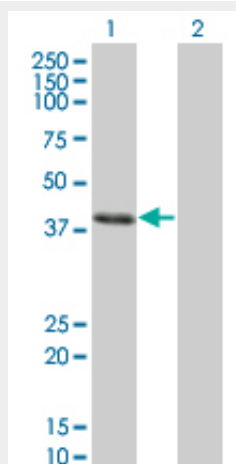
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CLN3 Antibody (monoclonal) (M03) - Images



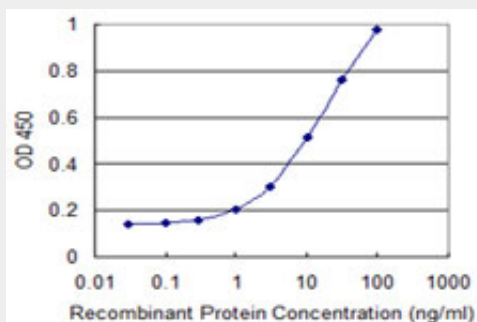
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (73.92 KDa) .



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.

### **CLN3 Antibody (monoclonal) (M03) - 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.

### **CLN3 Antibody (monoclonal) (M03) - 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.