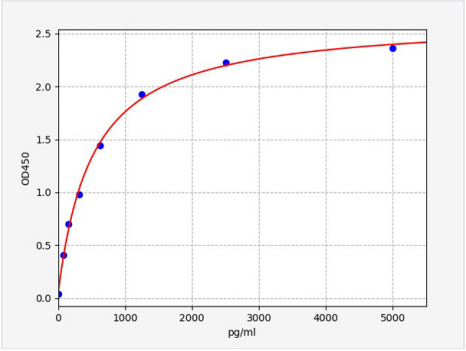
CLN3 (Battenin) (CLN3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CLN3 (Battenin), ELISA Kit
Full Product Name	Human CLN3 (Battenin) ELISA Kit
Product Gene Name	CLN3 elisa kit
Product Synonym Names	Batten disease protein; BATTENIN; BTS; CLN3; JNCL; Protein CLN3
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
OMIM	phenotype 607042
3D Structure	ModBase 3D Structure for Q13286
Intra Assay	CV<8%
Inter Assay	CV<10%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CLN3 elisa kit	MBS7607926 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CLN3 (Battenin) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CLN3. The ELISA analytical biochemical technique of the MBS7607926 kit is based on CLN3 antibody-CLN3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CLN3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CLN3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CLN3 elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of CLN3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLN3. It may not necessarily be applicable to this product.

NCBI GI #	2498243
NCBI GeneID	1201
NCBI Accession #	Q13286.1
UniProt Primary Accession #	Q13286
UniProt Related Accession #	Q13286
NCBI Official Full Name	Battenin
NCBI Official Synonym Full Names	CLN3 lysosomal/endosomal transmembrane protein, battenin
NCBI Official Symbol	CLN3
NCBI Official Synonym Symbols	BTS; BTN1; JNCL
UniProt Protein Name	Battenin
UniProt Synonym Protein Names	Batten disease protein; Protein CLN3
Protein Family	Battenin
UniProt Gene Name	CLN3
UniProt Synonym Gene Names	BTS
UniProt Entry Name	CLN3_HUMAN
NCBI Protein Information	battenin
NCBI Summary for CLN3	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. [provided by RefSeq, Jul 2008]

UniProt Comments for CLN3	CLN3: Involved in microtubule-dependent, anterograde transport of late endosomes and lysosomes. Defects in CLN3 are the cause of neuronal ceroid lipofuscinosis type 3 (CLN3); also known as Batten disease. A form of neuronal ceroid lipofuscinosis. Neuronal ceroid lipofuscinoses are progressive neurodegenerative, lysosomal storage diseases characterized by intracellular accumulation of autofluorescent liposomal material, and clinically by seizures, dementia, visual loss, and/or cerebral atrophy. The hallmark of CLN3 is the ultrastructural pattern of lipopigment with a fingerprint profile, which can have 3 different appearances: pure within a lysosomal residual body; in conjunction with curvilinear or rectilinear profiles; and as a small component within large membrane-bound lysosomal vacuoles. The combination of fingerprint profiles within lysosomal vacuoles is a regular feature of blood lymphocytes from patients with CLN3. Belongs to the battenin family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Mitochondrial; Vesicle; Autophagy; Chaperone; Apoptosis; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 16p12.1 Cellular Component: Golgi apparatus; neuron projection; Golgi stack; mitochondrion; lysosomal membrane; lysosome; endoplasmic reticulum; early endosome; integral to membrane; autophagic vacuole; trans-Golgi network; caveola; lipid raft; Golgi membrane; synaptic vesicle; late endosome; cytoplasm; plasma membrane; integral to endoplasmic reticulum membrane; nucleus Molecular Function: protein binding; unfolded protein binding Biological Process: sphingomyelin metabolic process; autophagic vacuole fusion; macroautophagy; glucosylceramide metabolic process; negative regulation of macroautophagy; amyloid precursor protein catabolic process; neurotransmitter metabolic process; vesicle transport along microtubule; protein catabolic process; negative regulation of neuron apoptosis; neuromuscular process controlling balance; associative learning; amino acid metabolic process; negative regulation of proteolysis; receptor-mediated endocytosis; regulation of action potential; cytosolic calcium ion homeostasis; vacuolar transport; arginine transport; globoside metabolic process; galactosylceramide metabolic process; lysosome organization and biogenesis; ionotropic glutamate receptor signaling pathway; negative regulation of catalytic activity; lysosomal lumen acidification; protein processing; ceramide metabolic process; negative regulation of apoptosis Disease: Ceroid Lipofuscinosis, Neuronal, 3
Research Articles on CLN3	**1.** Overexpression of CLN3 contributes to tumor progression and and metastasis in hepatocellular carcinoma.
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