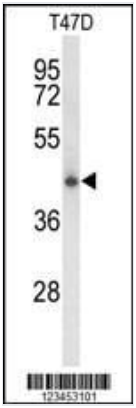
CLN5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLN5, Polyclonal Antibody
Full Product Name	CLN5, NT (Ceroid-lipofuscinosis Neuronal Protein 5, Protein CLN5) (AP)
Product Gene Name	anti-CLN5 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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLN5.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	41,497 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (77566059..77576652). Location: 13q21.1-q32
OMIM	256731
3D Structure	ModBase 3D Structure for O75503
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids within aa48-77 in the N-terminal region of human CLN5.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-CLN5 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-CLN5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CLN5 antibody	WB: 1:100-1:500 ELISA: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-CLN5 antibody	MBS6469494 is an antibody targeting CLN5. Also known as CLN5, NT (Ceroid-lipofuscinosis Neuronal Protein 5, Protein CLN5) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CLN5 antibody	1. Savukoski, M., et al., Am. J. Hum. Genet. 55: 695-701 (1994). 2. Mole, S.E., et al., Hum. Mutat. 14: 199-215 (1999).
Other Notes	Small volumes of anti-CLN5 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.



Western Blot (WB) of anti-CLN5 antibody
Western blot analysis of CLN5 Antibody (N-term) in T47D cell line lysates (35ug/lane).CLN5 (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLN5. It may not necessarily be applicable to this product.

NCBI GI #	5729772
NCBI GeneID	1203
NCBI Accession #	NP_006484.1
UniProt Primary Accession #	O75503
UniProt Related Accession #	O75503
GenBank Nucleotide #	NM_006493.2
NCBI Official Full Name	ceroid-lipofuscinosis neuronal protein 5
NCBI Official Synonym Full Names	ceroid-lipofuscinosis, neuronal 5
NCBI Official Symbol	CLN5
NCBI Official Synonym Symbols	NCL
UniProt Protein Name	Ceroid-lipofuscinosis neuronal protein 5
Protein Family	Ceroid-lipofuscinosis neuronal protein
UniProt Gene Name	CLN5
UniProt Synonym Gene Names	Protein CLN5
UniProt Entry Name	CLN5_HUMAN
NCBI Protein Information	ceroid-lipofuscinosis neuronal protein 5
NCBI Summary for CLN5	This gene is one of eight which have been associated with neuronal ceroid lipofuscinoses (NCL). Also referred to as Batten disease, NCL comprises a class of autosomal recessive, neurodegenerative disorders affecting children. The genes responsible likely encode proteins involved in the degradation of post-translationally modified proteins in lysosomes. The primary defect in NCL disorders is thought to be associated with lysosomal storage function.[provided by RefSeq, Oct 2008]

UniProt Comments for CLN5	CLN5: Defects in CLN5 are the cause of neuronal ceroid lipofuscinosis type 5 (CLN5); also known as Finnish variant late-infantile neuronal ceroid lipofuscinosis (vLINCL). 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 lipopigment patterns observed most often in neuronal ceroid lipofuscinosis type 5 comprise mixed combinations of granular, curvilinear, and fingerprint profiles. Belongs to the CLN5 family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 13q21.1-q32 Cellular Component: Golgi apparatus; perinuclear region of cytoplasm; lysosomal membrane; endoplasmic reticulum; lysosome; integral to membrane Molecular Function: mannose binding; protein binding Biological Process: neurogenesis; signal peptide processing; lysosomal lumen acidification; protein catabolic process; brain development; neuron maturation Disease: Ceroid Lipofuscinosis, Neuronal, 5
Research Articles on CLN5	**1.** This study highlights a close interaction between CLN5/CLN8 proteins, and their role in sphingolipid metabolism. Our findings suggest that CLN5p/CLN8p most likely are positive modulators of CerS1 and/or CerS2.
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