

Rabbit CLN3 Polyclonal Antibody | anti-CLN3 antibody

CLN3 Antibody (Center)

CATALOG # AAA288619	HOST Rabbit	REACTIVITY Human, mouse (Predicted Reactivity: Monkey)	APPLICATIONS Immunohistochemistry, Western Blot, ELISA, Flow Cytometry, Functional Assay
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

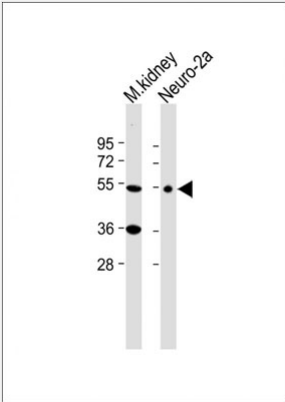
CLN3; Polyclonal Antibody; CLN3 Antibody (Center); Battenin; Batten disease protein; Protein CLN3; BTS; anti-CLN3 antibody

PRODUCT SPECIFICATIONS

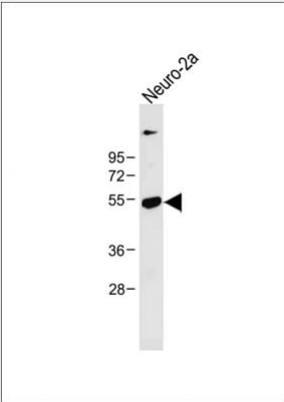
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Monkey)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CLN3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 250-284 amino acids from the Central region of human CLN3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	438
Applicable Applications for anti-CLN3 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Crown Antibody	Yes
Antigen Source	HUMAN
Function	Mediates microtubule-dependent,anterograde transport connecting the Golginetwork, endosomes, autophagosomes,lysosomes and plasma membrane, andparticipates in several cellular processes suchas regulation of lysosomal pH, lysosomeprotein degradation, receptor-mediatedendocytosis, autophagy, transport of proteinsand lipids from the TGN, apoptosis andsynaptic transmission (PubMed: , PubMed:18817525,PubMed: , PubMed:22261744,PubMed: , PubMed:20850431).Facilitates the proteins transport fromtrans-Golgi network (TGN)-to othermembrane compartments such as transportof microdomain-associated proteins to theplasma membrane, IGF2R transport to thelysosome where it regulates the CTSD releasleading to regulation of CTSD maturation andthereby APP intracellular processing(PubMed: , PubMed:18817525).Moreover regulates CTSD activity in responseto osmotic stress (PubMed: , PubMed:28390177). Alsobinds galactosylceramide and transports itfrom the trans Golgi to the rafts, which mayhave immediate and downstream effects oncell survival by modulating ceramidesynthesis (PubMed:). At theplasma memebrane, regulatesactin-dependent events including filopodiaformation, cell migration, and pinocytosisthrough ARF1-CDC42 pathway and also thecytoskeleton organization through interactionwith MYH10 and fodrin leading to theregulation of the plasma membraneassociation of Na ⁺ , K ⁺ ATPase complex(PubMed:). Regulatessynaptic transmission in the amygdala,hippocampus, and cerebellum throughregulation of synaptic vesicles density andtheir proximity to active zones leading tomodulation of short-term plasticity andage-dependent anxious behavior, learningand memory (By similarity). Regulatesautophagic vacuoles (AVs) maturation bymodulating the trafficking between endocyticand autophagolysosomal/lysosomalCLN3 Antibody (Center) - Background Involved in microtubule-dependent,anterograde transport of late endosomes andlysosomes.CLN3 Antibody (Center) - References Lerner T.J.,et al.Cell 82:949-957(1995).Mitchison H.M.,et al.Genomics 40:346-350(1997).LaFauci G.,et al.Submitted (JUL-1997) to theEMBL/GenBank/DDBJ databases.LaFauci G.,et al.Submitted (JUL-1998) to theEMBL/GenBank/DDBJ databases.Ota T.,et al.Nat. Genet. 36:40-45(2004). compartments, which involves vesicle fusionleading to regulation of degradation process(By similarity). Participates also in cellularhomeostasis of compounds such as, water,ions, amino acids, proteins and lipids inseveral tissue namely in brain and kidneythrough regulation of their transport andsynthesis (PubMed:).

Cellular Location	Lysosome membrane; Multi-pass membraneprotein. Late endosome. Lysosome. Golgiapparatus. Golgi apparatus membrane. Golgiapparatus, Golgi stack. Golgi apparatus,trans-Golgi network. Cell membraneRecycling endosome. Membrane raft.Membrane, caveola. Early endosomemembrane. Cell junction, synapse,synaptosome{ECO:0000250 UniProtKB:Q61124}. Lateendosome membrane{ECO:0000250 UniProtKB:Q61124}.Cytoplasmic vesicle, autophagosome{ECO:0000250 UniProtKB:Q61124}.Note=CLN3 is not present in lateendosomes/lysosomes in fibroblasts andneurons (PubMed:15240864) Trafficks fromcell membrane to Golgi via endosomes(PubMed:15240864) Osmotic stress changesthe subcellular localization of CLN3(PubMed:23840424). Trafficks to intracellularcompartments via the plasma membranetthrough AP3M1-dependent mechanisms(PubMed:14644441) Excluded from thesynaptic vesicles (By similarity){ECO:0000250 UniProtKB:Q61124,ECO:0000269 PubMed:14644441,ECO:0000269 PubMed:15240864,ECO:0000269 PubMed:23840424}
Tissue Location	Expressed in the cortical brain, pancreas,spleen, and testis with weaker expression inthe peripheral nerve (at protein level). Highlyexpressed in gray matter (at protein level)
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
All lanes : Anti-CLN3 Antibody (Center) at 1:500 dilution Lane 1: Mouse kidney lysate Lane 2: Neuro-2a whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
Anti-CLN3 Antibody (Center) at 1:1000 dilution + Neuro-2a whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CLN3 antibody	Involved in microtubule-dependent, anterograde transport of late endosomes and lysosomes.
Product Categories/Family for anti-CLN3 antibody	Crown Antibodies; Cell Biology; Neuroscience
References	Lerner T.J.,et al.Cell 82:949-957(1995). Mitchison H.M.,et al.Genomics 40:346-350(1997). LaFauci G.,et al.Submitted (JUL-1997) to the EMBL/GenBank/DDBJ databases. LaFauci G.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502889
NCBI GeneID	1201
NCBI Accession #	NP_000077.1
NCBI GenBank Nucleotide #	NM_000086.2
UniProt Accession #	Q13286; O00668; O95089; Q549S9; Q9UP09; Q9UP11; Q9UP12; Q9UP13; Q9UP14; B2R7J1; B4DXL3
Molecular Weight	47623

NCBI Official Full Name	battenin isoform a
NCBI Official Synonym Full Names	ceroid-lipofuscinosis, neuronal 3
NCBI Official Symbol	CLN3
NCBI Official Synonym Symbols	BTS; JNCL
NCBI Protein Information	battenin
UniProt Protein Name	Battenin
UniProt Gene Name	CLN3
UniProt Synonym Gene Names	BTS
UniProt Entry Name	CLN3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cln3-antibody-immunohistochemistry-western-blot-flow-cytometry-elisa/288619>