

Rabbit anti-Human CLNS1A Polyclonal Antibody | anti-CLNS1A antibody

CLNS1A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324825	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

CLNS1A; Polyclonal Antibody; CLNS1A Antibody; Chloride channel; Chloride channel nucleotide sensitive 1A; Chloride channel regulatory protein; Chloride conductance regulator; volume sensitive; Chloride conductance regulatory protein ICLN; Chloride ion current inducer protein; CICI; CLNS 1A; Clns1a; CLNS1B; I(Cln); ICLN; ICLN_HUMAN; Methylosome subunit pICln; nucleotide sensitive 1A; Reticulocyte pICln; Reticulocyte protein ICLN; anti-CLNS1A antibody

PRODUCT SPECIFICATIONS

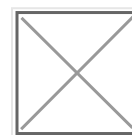
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	CLNS1A antibody detects endogenous levels of total CLNS1A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	237
Applicable Applications for anti-CLNS1A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus. Cytoplasm > Cytoskeleton. A small fraction is also associated with the cytoskeleton.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (83%), Bovine (91%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (91%), Chicken (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324825 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HuvEc cells using CLNS1A antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CLNS1A antibody	Function: Involved in both the assembly of spliceosomal snRNPs and the methylation of Sm proteins (PubMed:21081503, PubMed:18984161). Chaperone that regulates the assembly of spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. May also indirectly participate in cellular volume control by activation of a swelling-induced chloride conductance pathway. Subunit Structure: Component of the methylosome, a 20S complex containing at least PRMT5/SKB1, WDR77/MEP50 and CLNS1A/pICln (PubMed:21081503, PubMed:11747828, PubMed:18984161). May mediate SNRPD1 and SNRPD3 methylation. Forms a 6S pICln-Sm complex composed of CLNS1A/pICln, SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG; ring-like structure where CLNS1A/pICln mimics additional Sm proteins and which is unable to assemble into the core snRNP (PubMed:18984161). Interacts with LSM10 and LSM11 (PubMed:16087681). Similarity: Belongs to the pICln (TC 1.A.47) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502891
NCBI GeneID	1207
NCBI Accession #	NP_001284.1
NCBI GenBank Nucleotide #	NM_001293.2
UniProt Accession #	P54105; Q0VDK6; Q9NRD2; Q9NRD3; B2RCS9
Molecular Weight	Observed: 37 kD Predicted: 27 kDa
NCBI Official Full Name	methylosome subunit pICln isoform a
NCBI Official Synonym Full Names	chloride nucleotide-sensitive channel 1A
NCBI Official Symbol	CLNS1A
NCBI Official Synonym Symbols	CLCI; ICln; CLNS1B
NCBI Protein Information	methylosome subunit pICln
UniProt Protein Name	Methylosome subunit pICln
UniProt Gene Name	CLNS1A
UniProt Synonym Gene Names	CLCI; ICLN; I(Cln); CICI

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/clns1a-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324825>