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CL029 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11154a

Specification

CL029 Antibody (N-term) - Product Information

Application	**WB, IHC-P, IF, FC,E**
Primary Accession	Q8N999
Other Accession	NP_001009894.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**37490**
Antigen Region	**61-89**

CL029 Antibody (N-term) - Additional Information

Gene ID 91298

Other Names
Uncharacterized protein C12orf29, C12orf29

Target/Specificity
This CL029 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 61-89 amino acids from the N-terminal region of human CL029.

Dilution
WB~~1:1000
IHC-P~~1:50~100
IF~~1:10~50
FC~~1:10~50
E~~Use at an assay dependent concentration.

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.

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.

Precautions
CL029 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CL029 Antibody (N-term) - Protein Information

Name RLIG1 (HGNC:25322)

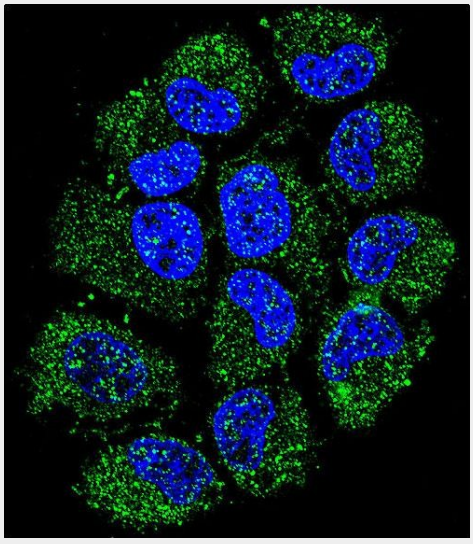
Function Functions as an RNA ligase, in vitro (PubMed:36792600). The ligation reaction entails three nucleotidyl transfer steps (PubMed:36792600). In the first step, the RNA ligase reacts with ATP in the absence of nucleic acid to form a covalent ligase-AMP intermediate and release pyrophosphate (PubMed:36792600). In step 2, the ligase-AMP binds to the nucleic acid and transfers the adenylate to the 5'-PO4 terminus to form an adenylylated intermediate (PubMed:36792600). In step 3, the RNA ligase directs the attack of the 3'-OH on the 5'-phosphoanhydride linkage, resulting in a repaired 3'-5' phosphodiester and release of AMP (PubMed:36792600). Exhibits selectivity for single- stranded RNA substrates and may not have nick-sealing activity on double-stranded DNA-RNA hybrids (PubMed:36792600). May play a role in maintaining RNA integrity under stress conditions, for example in response to reactive oxygen species (ROS) (PubMed:36792600).

CL029 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CL029 Antibody (N-term) - Images



Confocal immunofluorescent analysis of CL029 Antibody (N-term)(Cat#AP11154a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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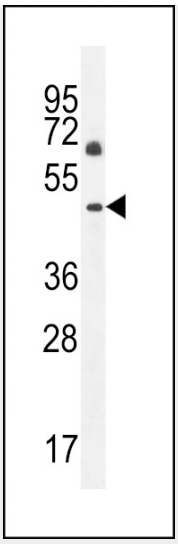
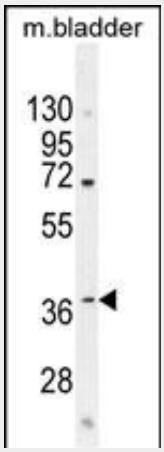
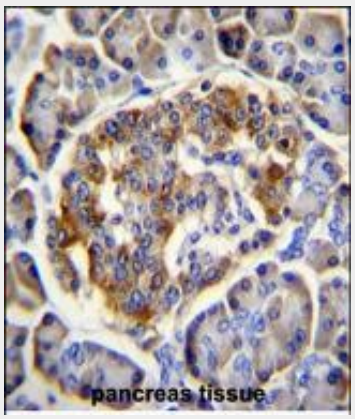


CL029 Antibody (N-term) (Cat. #AP11154a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the CL029 antibody detected the CL029 protein (arrow).



CL029 Antibody (N-term) (Cat. #AP11154a) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the CL029 antibody detected the CL029 protein (arrow).



CL029 Antibody (N-term) (Cat. #AP11154a)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CL029 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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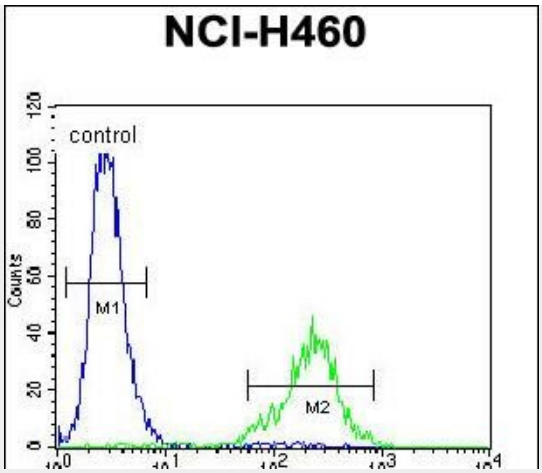

CL029 Antibody (N-term) (Cat. #AP11154a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CL029 Antibody (N-term) - Background

May be required for endoplasmic reticulum organization (By similarity).

CL029 Antibody (N-term) - References

Mehrle, A., et al. Nucleic Acids Res. 34 (DATABASE ISSUE), D415-D418 (2006) :
Wiemann, S., et al. Genome Res. 14 (10B), 2136-2144 (2004) :