

Datasheet for 600-401-CK9**LIN28 Antibody****Overview**

Description:	Anti-LIN28 (RABBIT) Antibody - 600-401-CK9
Item No.:	600-401-CK9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Lin28 is a transcription factor that was first identified through its key role in the pathway of developmental timing in <i>C. elegans</i> . The role of Lin28 in development suggested that it might be useful in the creation of stem cells that might be beneficial in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing Lin28 in addition to the transcription factors POU5F1, Sox2, and NANOG in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing Lin28, Sox2, POU5F1 and c-Myc, eliminating the need for virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine.
Synonyms:	Lin28 Antibody, CSDD1, LIN28, LIN-28, ZCCHC1, lin-28A, CSDD1, Protein lin-28 homolog A, Zinc finger CCHC domain-containing protein 1, Lin-28A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LIN28A
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Lin28 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human Lin28.
Purity/Specificity:	Anti-Lin28 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Lin28 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9H9Z2 • GeneID - 79727 • NCBI - NP_078950

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Lin28 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 23 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

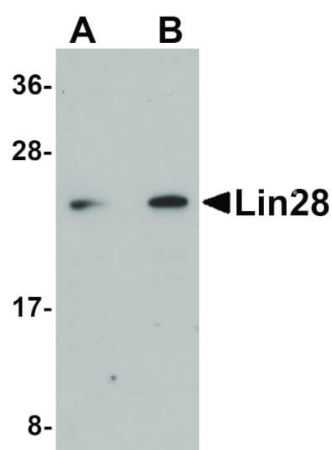
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

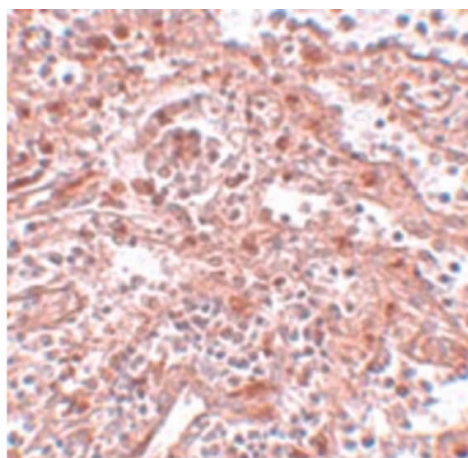
Expiration: Expiration date is one (1) year from date of receipt.

Images



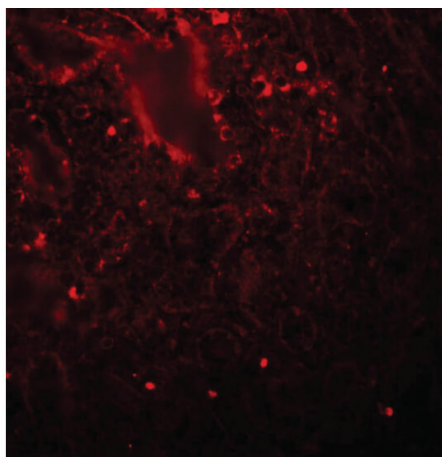
Western Blot

Western Blot of Lin28 antibody. Lane 1: Raji cell lysate with Lin28 antibody at 1 µg/mL. Lane 2: Raji cell lysate with Lin28 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 23 kDa, 23 kDa for Lin28. Other band(s): Lin28 splice variants and isoforms.



Immunohistochemistry

Immunohistochemistry of LIN28 antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: LIN28 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LIN28 is nuclear and cytoplasmic. Staining: LIN28 as precipitated brown signal with blue nuclear counterstain.

**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of LIN28 antibody. Tissue: Human spleen tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: LIN28 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LIN28 is nuclear and cytoplasmic. Staining: LIN28 as red fluorescent signal.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.