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Datasheet for 200-301-CL0

LIN28 Antibody [1G9H9]

Overview

Description:	Anti-LIN28 (MOUSE) Antibody - 200-301-CL0
Item No.:	200-301-CL0
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Lin28 is a transcription factor that was first identified through its key role in the pathway of developmental timing in C. elegans. 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, LIN-28, ZCCHC1, lin-28A
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[1G9H9]
Format:	IgG2b

Target Details

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

Immunogen:	Anti-Lin28 antibody was produced in mice by repeated immunizations with a 15 amino acid peptide near the C-terminus of human Lin28.
Purity/Specificity:	Anti-Lin28 Monoclonal Antibody is affinity chromatography purified via peptide column. At least two isoforms of Lin28 are known to exist; this antibody will detect both. Lin28 antibody will not cross-react with Lin28 Homolog B.
Relevant Links:	• UniProtKB - Q9H9Z2 • GeneID - 79727 • NCBI - EAX07814

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Lin28 Antibody has been tested for use in ELISA and Western Blotting. 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. Validated in human samples. All other applications and species not yet tested.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:500 - 1:10,000
WB:	0.5-1 µg/mL

Formulation

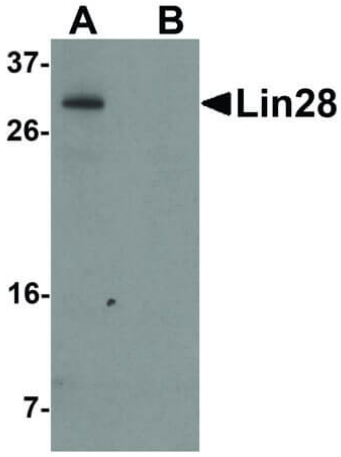
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse anti-Lin28 antibody. Lane A: Raji cell lysate in absence of blocking peptide. Lane B: Raji cell lysate in presence of blocking peptide. Primary antibody: Lin28 antibody at 0.5 µg/mL overnight at 4°C. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 22 kDa, 23 kDa for Lin28.

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