

CA1021

## Lin28 Monoclonal Antibody (PR-4C9)

**Prod. No. S2090-100UG**
*For Research Use Only  
Not intended for use in humans or animals*


Orders & Support	866 372-7442 support@primorigen.com
Web	www.primorigen.com

Reacts with	Human, Mouse*
Tested Applications	WB, ELISA, Dot
Host	Mouse
Clone	PR-4C9
Isotype	IgG1, $\kappa$

*\*Other species not tested*
**Size:** 100  $\mu$ g

**Immunogen:** Synthetic peptide derived from human Lin28 (between AA 100 and AA 150) conjugated to ovalbumin carrier protein.

**Purification:** Protein G chromatography

**Formulation:** 1 mg/ml in PBS  
Preservative: 0.09% NaN<sub>3</sub>
**Storage:** Store at 4°C (<3 months) or -20°C.  
Avoid multiple freeze-thaws.

**Recommended Uses:**

Western Blot	1:1000
ELISA (detect)	1:1000
Dot blot (detect)	1:500
Note: Optimal concentrations should be empirically determined.	

**Target Alternative Names:** Protein lin-28 homolog A, Lin-28A, Zinc finger CCHC domain-containing protein

**Target Size:** 209 AA; 22.7 kDa

**Target Database Links:**

RefSeq Protein	NP_078950
RefSeq Gene	NM_024674
UniProt	Q9H9Z2

**Background:** Human Lin28, encoded by the LIN28 gene, is a cytoplasmic mRNA-binding protein with a cold shock domain and two CHCC-type zinc fingers. It has been shown to enhance translation of IGF-2 mRNA and to block processing of let-7 microRNA. Lin28 is a marker for undifferentiated embryonic stem cells, and Lin28 expression has been used to enhance the generation of induced pluripotent stem (iPS) cells.

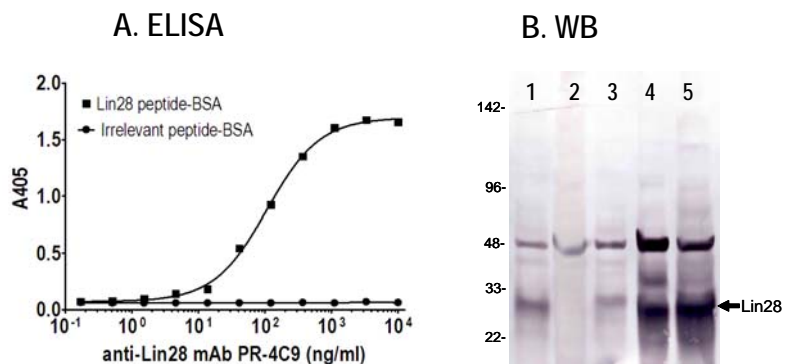
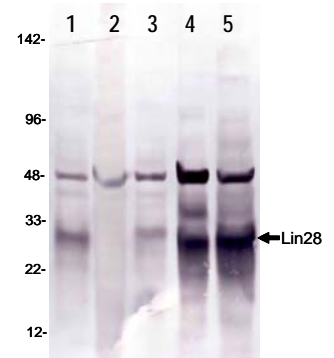
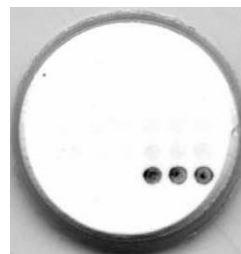
**Applications:**

(A) Indirect ELISA detection of immobilized Lin28 peptide immunogen with titrated amounts of Lin28 monoclonal antibody (PR-4C9). No binding is seen to irrelevant peptide.

(B) Western blot detection of Lin28 using 1.0  $\mu$ g/ml Lin28 mAb (PR-4C9): (1) 20  $\mu$ g CHO-Lin28 transfectant cell lysate, (2) 20  $\mu$ g untransfected CHO cell lysate, (3) 10  $\mu$ g murine F9 cell lysate, (4) 20  $\mu$ g 2102 cell lysate, and (5) 20  $\mu$ g NTERA-2 cell lysate. Lin28 has been reported to run at ~30 kDa (higher than predicted).

(C) Specific detection of Lin28 in transfected HEK-293 cell lysates (non-denatured) printed on Spots On Dots™ nitrocellulose membrane.

Note: Representative data are shown (not Lot-specific).


**B. WB**

**C. Dot blot/ Microarray**


--293-Nanog lysate (x3)  
--293-Pou5F1 (Oct4) lysate (x3)  
--293-SOX2 lysate (x3)  
--293-Lin28 lysate (x3)

**Warranty:** Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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