

CA1024

## Lin28 Monoclonal Antibody (PR-3D1)

**Prod. No. S2110-100UG**
*For Research Use Only  
Not intended for use in humans or animals*


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Reacts with	Human, Mouse*
Tested Applications	WB, ELISA, Dot
Host	Mouse
Clone	PR-3D1
Isotype	IgG1, $\kappa$

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

**Immunogen:** Synthetic peptide derived from human Lin28 (within 50 amino acids of N-terminus) 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	1:500
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

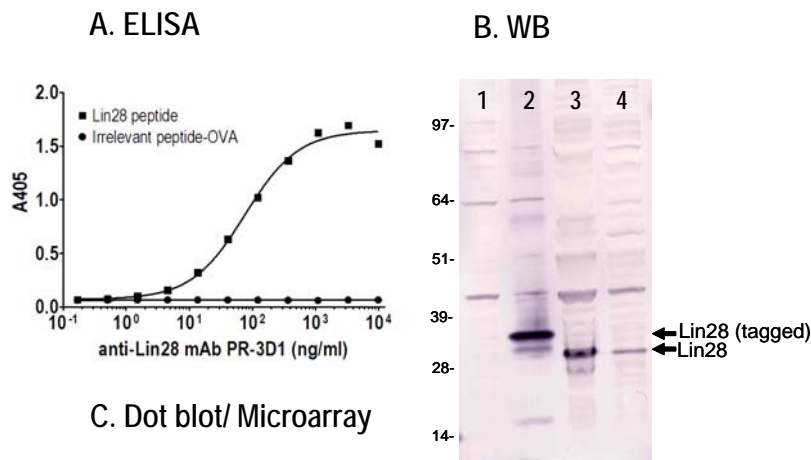
**Target Database Links:**

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-3D1). No binding is seen to irrelevant peptide conjugated to ovalbumin carrier protein.
- (B) Western blot detection of Lin28 using 2.0  $\mu$ g/ml Lin28 mAb (PR-3D1): (1) 4  $\mu$ g untransfected HEK-293 cell lysate, (2) 4  $\mu$ g HEK-293-Lin28 transfectant cell lysate, (3) 20  $\mu$ g NTERA-2 cell lysate, and (4) 10  $\mu$ g murine F9 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).*


**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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