



LIN28A (PT2143R) Rabbit mAb

Catalog No	YP-rAb-18556
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB、IHC、IF、ELISA
Gene Name	LIN28A CSDD1 LIN28 ZCCHC1
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	LIN28A CSDD1 LIN28 ZCCHC1;Protein lin-28 homolog A;CSDD1 ; FLJ12457 ; LIN 28 ; Lin-28A ; LIN28 ; LIN28A ; LN28A_HUMAN ; Protein lin-28 homolog A ; ZCCHC1 ; Zinc finger CCHC domain-containing protein 1.
Observed Band	27kD
Calculated Molecular Weight	23kD
Cell Pathway	Cytoplasm . Rough endoplasmic reticulum . Cytoplasm , P-body . Cytoplasm , Stress granule . Nucleus , nucleolus . Predominantly cytoplasmic (PubMed:22118463) . In the cytoplasm , localizes to peri-endoplasmic reticulum regions and detected in the microsomal fraction derived from rough endoplasmic reticulum (RER) following subcellular fractionation. May be bound to the cytosolic surface of RER on which ER-associated mRNAs are translated (By similarity) . Shuttle from the nucleus to the cytoplasm requires RNA-binding (PubMed:17617744) . Nucleolar localization is observed in 10-15% of the nuclei in differentiated myotubes (By similarity) . .
Tissue Specificity	Expressed in embryonic stem cells , placenta and testis. Tends to be up-regulated in HER2-overexpressing breast tumors.
Function	developmental stage:Expressed in fetal liver. Expression decreases during differentiation of ES cells or upon induction of neuronal differentiation by retinoic acid. ,Domain:The CSD domain is required for function in muscle differentiation. ,Function:Acts as a 'translational enhancer' , driving specific mRNAs to polysomes and thus increasing the efficiency of protein synthesis. Its association with the translational machinery and target mRNAs results in an increased number of



initiation events per molecule of mRNA and , indirectly , in stabilizing the mRNAs. Binds IGF2 mRNA , MYOD1 mRNA , ARBP/36B4 ribosomal protein mRNA and its own mRNA. Essential for skeletal muscle differentiation program through the translational up-regulation of IGF2 expression. ,induction:Can be negatively regulated by the interaction of microRNAs miR-125a and miR-125b with at least two miRNA responsive elements (miREs) in the 3'-UTR of this gene. These interactions may reduce both translation efficiency and mRNA abundance. Negatively regulated by retinoic acid. ,similarity:Belongs to the lin-28 family. ,similarity:Contains 1 CSD (cold-shock) domain. ,similarity:Contains 2 CCHC-type zinc fingers. ,subcellular location:Nucleolar localization observed in 10 - 15% of the nuclei in differentiated myotubes. ,subunit:During skeletal muscle differentiation , associated with translation initiation complexes in the polysomal compartment. Directly interacts with EIF3S2. Interaction with NCL is RNA-dependent. ,tissue specificity:Expressed in embryonic stem cells (ES cells) , placenta and testis. ,

Background

This gene encodes a LIN-28 family RNA-binding protein that acts as a posttranscriptional regulator of genes involved in developmental timing and self-renewal in embryonic stem cells. The encoded protein functions through direct interaction with target mRNAs and by disrupting the maturation of certain miRNAs involved in embryonic development. This protein prevents the terminal processing of the LET7 family of microRNAs which are major regulators of cellular growth and differentiation. Aberrant expression of this gene is associated with cancer progression in multiple tissues. [provided by RefSeq , Sep 2015] ,

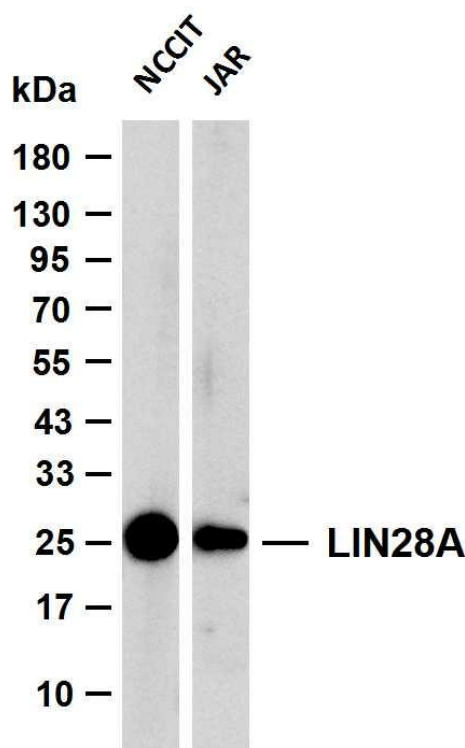
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LIN28A (PT2143R) antibody.

The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: NCCIT

Lane 2: JAR

Predicted band size: 23kDa

Observed band size: 25kDa