LIN28 Ab

Cat.#: BF0638	Concn.: 1mg/ml	Mol.Wt.: 23kDa
Size: 50ul,100ul,200ul	Source: Mouse	Clonality: Monoclonal

Application:	ELISA 1/10000, WB 1/500 - 1/2000, ICC 1/200 - 1/1000
Reactivity:	Human
Purification:	Affinity-chromatography.
Specificity:	LIN28 Ab detects endogenous levels of total LIN28.
Immunogen:	Purified recombinant fragment of human LIN28 expressed in E. Coli.
Uniprot:	Q9H9Z2
Description:	LIN28: lin-28 homolog (C. elegans), also known as CSDD1, ZCCHC1. Entrez Protein NP_078950. LIN28 was first discovered in the nematode C. elegans. It is a heterochronic protein in C. elegans involved in the timing of developmental events and choice of stage specific cell fates. LIN28 expression has been found to be regulated post-transcriptionally by miRNAs in both nematodes and mammals. In humans it is expressed in embryonic stem cells and its expression decreases during differentiation. It is negatively regulated by retinoic acid in neuronal differentiation.
Subcellular Location:	Cytoplasm. Nucleus > nucleolus. Nucleolar localization observed in 10-15% of the nuclei in differentiated myotubes (By similarity). Shuttles between the cytoplasm and the nucleus. Localizes to cytoplasmic processing bodies and stress granules.
Tissue Specificity:	Expressed in embryonic stem cells, placenta and testis. Tends to be up-regulated in HER2-overexpressing breast tumors.
Similarity:	The CSD domain is required for function in muscle differentiation.The CCHC zinc fingers interact with the GGAG motif at the 3' end of let-7 miRNAs precursors, more generally they bind the 5'-NGNNG-3' consensus motif with micromolar affinity. The CSD domain recognizes the loop at the 5' end. The flexible linker allows accommodating variable sequences and lengths among let-7 family members.Belongs to the lin-28 family.
Storage Condition and Buffer:	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50%

glycerol.Store at -20 °C.Stable for 12 months from date of receipt.

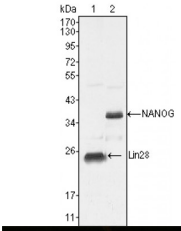

Figure 1: Western blot analysis using LIN28 mouse mAb against NTERA-2 cell lysate (1).

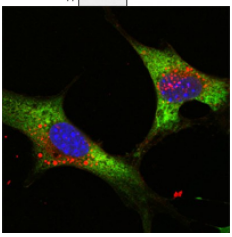

Figure 3: Confocal immunofluorescence analysis of NTERA-2 cells using LIN28 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

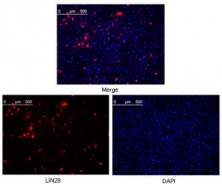

Figure 2: Confocal immunofluorescence analysis of methanol fixed Hela cells were transfected with pMX construct of human LIN28, cells were analyzed ~62 hours after transfection.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.