

Rabbit lin28b Polyclonal Antibody | anti-lin28b antibody

lin28b Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329388	Rabbit	Human Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (91%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

lin28b; Polyclonal Antibody; lin28b Antibody; CSDD 2; CSDD2; FLJ16517; Lin 28 homolog B (C. elegans); Lin 28.2; Lin-28B; LIN28B; LN28B_HUMAN; Protein lin-28 homolog B; anti-lin28b antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (91%)
Clonality	Polyclonal
Isotype	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Specificity	lin28b Antibody detects endogenous levels of total lin28b. Tissue Specificity: Expressed at high levels in the placenta and, at much lower, in testis and fetal liver. Isoform 1 is only detected in placenta and in moderately and poorly differentiated hepatocellular carcinoma cells (at protein level). Isoform 2 is detected in fetal liver, non-tumor liver tissues, as well as well-differentiated tumor tissues (at protein level). Tends to be up-regulated in triple-negative (ER-,PR-,HER2-) breast tumors, as well as in liver, ovarian, and thyroid carcinomas.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-lin28b antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human lin28b, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Similarity	The tandem zinc fingers, also referred as zinc knuckle domain (ZKD), mediate specific binding to the GGAG/GGUG motif while the CSD shows only limited pyrimidine-rich sequence specificity. Both domains bind single-stranded nucleic acids. Belongs to the lin-28 family.
Subcellular Location	Nucleus. Nucleus>Nucleolus. Cytoplasm. Note: Predominantly nucleolar (PubMed:22118463). In Huh7 cells, predominantly cytoplasmic, with only a subset of cells exhibiting strong nuclear staining; however, the specificity of the polyclonal antibody used in these experiments has not been documented (PubMed:16971064).
Preparation and Storage	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

IMAGES



IHC (Immunohistochemistry)
Staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HeLa and 293 cells using LIN28B Antibody

ADDITIONAL INFORMATION

Related Product Information for anti-lin28b antibody	Suppressor of microRNA (miRNA) biogenesis, including that of let-7 and possibly of miR107, miR-143 and miR-200c. Binds primary let-7 transcripts (pri-let-7), including pri-let-7g and pri-let-7a-1, and sequester them in the nucleolus, away from the microprocessor complex, hence preventing their processing into mature miRNA. Does not act on pri-miR21. The repression of let-7 expression is required for normal development and contributes to maintain the pluripotent state of embryonic stem cells by preventing let-7-mediated differentiation. When overexpressed, recruits ZCCHC11/TUT4 uridylyltransferase to pre-let-7 transcripts, leading to their terminal uridylation and degradation. This activity might not be relevant in vivo, as LIN28B-mediated inhibition of let-7 miRNA maturation appears to be ZCCHC11-independent. Interaction with target pre-miRNAs occurs via an 5'-GGAG-3' motif in the pre-miRNA terminal loop. Mediates MYC-induced let-7 repression (By similarity). When overexpressed, isoform 1 stimulates growth of the breast adenocarcinoma cell line MCF-7. Isoform 2 has no effect on cell growth. Acts as a suppressor of microRNA (miRNA) biogenesis by specifically binding the precursor let-7 (pre-let-7), a miRNA precursor. Acts by binding pre-let-7 and recruiting ZCCHC11/TUT4 uridylyltransferase, leading to the terminal uridylation of pre-let-7. Uridylated pre-let-7 miRNAs fail to be processed by Dicer and undergo degradation. Specifically recognizes the 5'-GGAG-3' motif in the terminal loop of pre-let-7.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51972214
NCBI GeneID	389421
NCBI Accession #	NP_001004317.1
NCBI GenBank Nucleotide #	NM_001004317.3
UniProt Accession #	Q6ZN17; Q5TCM4; A1L165; B2RPN6
Molecular Weight	19,511 Da
NCBI Official Full Name	protein lin-28 homolog B
NCBI Official Synonym Full Names	lin-28 homolog B (C. elegans)
NCBI Official Symbol	LIN28B
NCBI Official Synonym Symbols	CSDD2
NCBI Protein Information	protein lin-28 homolog B; Lin-28.2; lin-28B
UniProt Protein Name	Protein lin-28 homolog B
UniProt Gene Name	LIN28B
UniProt Synonym Gene Names	CSDD2; Lin-28B
UniProt Entry Name	LN28B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.