

DESCRIPTION

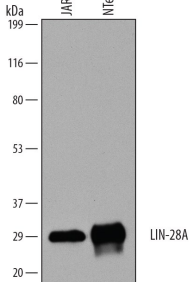
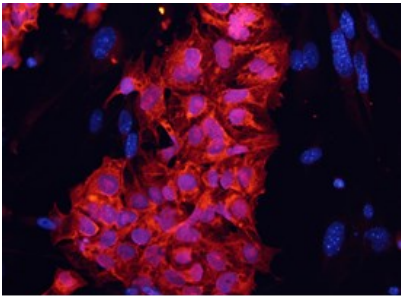
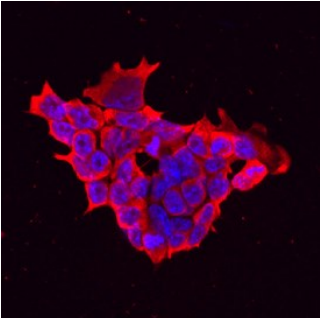
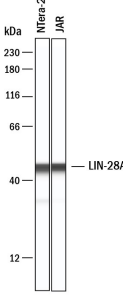

Species Reactivity	Human
Specificity	Detects human LIN-28A in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LIN-28A Met1-Asn209 Accession # Q9H9Z2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Simple Western	10 µg/mL	NTERa-2 human testicular embryonic carcinoma cell line and JAR human choriocarcinoma cell line

DATA

<p>Western Blot</p>  <p>Detection of Human LIN-28A by Western Blot. Western blot shows lysates of JAR human choriocarcinoma cell line and NTERa-2 human testicular embryonic carcinoma cell line. PVDF membrane was probed with 0.1 µg/mL of Goat Anti-Human LIN-28A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3757) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for LIN-28A at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>LIN-28A in BG01V Human Stem Cells. LIN-28A was detected in immersion fixed BG01V human embryonic stem cells using 10 µg/mL Goat Anti-Human LIN-28A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3757) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
<p>Immunocytochemistry</p>  <p>LIN-28A in D3 Mouse Stem Cells. LIN-28A was detected in immersion fixed D3 mouse embryonic stem cell line using Goat Anti-Human LIN-28A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3757) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>	<p>Simple Western</p>  <p>Detection of Human LIN-28A by Simple Western™. Simple Western lane view shows lysates of NTERa-2 human testicular embryonic carcinoma cell line and JAR human choriocarcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for LIN-28A at approximately 45 kDa (as indicated) using 10 µg/mL of Goat Anti-Human LIN-28A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3757). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p> 

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human LIN-28 (Protein lin-28 homolog A; CSDD1, LIN28 and ZCCHC1) is a 30 kDa (209 amino acids) cytoplasmic RNA-binding protein with an N-terminal cold shock domain and two C-terminal CCHC zinc finger domains. It is expressed by various undifferentiated embryonic cell types and is also present in adult cardiac and skeletal muscle. Expression of LIN-28 has been shown to be regulated by micro-RNA. Human LIN-28 shares 98% and 97% amino acid sequence homology with rat and mouse LIN-28, respectively.