

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human LIN-41 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human LIN-41 Val386-Phe868 Accession # Q2Q1W2
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below
<b>Simple Western</b>	10 µg/mL	See Below

**DATA**

**Western Blot**

**Detection of Human LIN-41 by Western Blot.** Western blot shows lysates of BG01V human embryonic stem cells and NTERA-2 human testicular embryonic carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human LIN-41 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5104) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for LIN-41 at approximately 95 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

**Immunocytochemistry**

**LIN-41 in BG01V Human Stem Cells.** LIN-41 was detected in immersion fixed BG01V human embryonic stem cells using Human LIN-41 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5104) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (yellow; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

**Simple Western**

**Detection of Human LIN-41 by Simple Western™.** Simple Western lane view shows lysates of BG01V human embryonic stem cells, loaded at 0.2 mg/mL. A specific band was detected for LIN-41 at approximately 97 kDa (as indicated) using 10 µg/mL of Sheep Anti-Human LIN-41 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5104) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

LIN-41 (lineage-41; also TRIM/tripartite motif-containing protein 71) is a 94 kDa (predicted) cytosolic member of the RBCC (RING finger, B-Box Coiled-Coil) family of proteins. It is expressed in developing limbs, DRG and branchial arches and apparently regulates the timed expression of proliferation and differentiation-associated genes. Human LIN-41 is 868 amino acids (aa) in length. It contains a RING-type zinc finger region (aa 12-95), a His-rich segment (aa 146-157), two B Box zinc fingers that bind DNA (aa 194-314), a coiled-coil motif that binds protein (aa 391-427), one filamin repeat and six NHL repeats that regulate gene translation (aa 593-868). Over aa 386-868, human LIN-41 is 97%, 95%, and 94% aa identical to canine, mouse, and chicken LIN-41, respectively.