

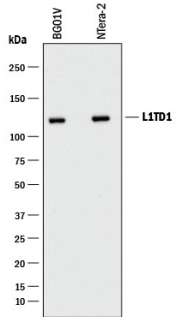
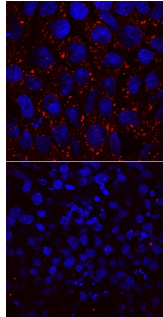
DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human L1TD1 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 901258
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human L1TD1 Met1-Leu142 Accession # Q5T7N2
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p> 	<p><b>Detection of Human L1TD1 by Western Blot.</b> 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 Mouse Anti-Human L1TD1 Monoclonal Antibody (Catalog # MAB8317) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for L1TD1 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>L1TD1 in BG01V Human Embryonic Stem Cells.</b> L1TD1 was detected in immersion fixed BG01V human embryonic stem cells, undifferentiated (upper panel) or differentiated for 4 days (lower panel), using Mouse Anti-Human L1TD1 Monoclonal Antibody (Catalog # MAB8317) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for <a href="#">Fluorescent ICC Staining of Stem Cells on Coverslips</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 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**

L1TD1 (LINE-1 type transposase domain-containing protein 1; also known as ES cell-associated protein 11 and FLJ10884) is an RNA binding protein with a reported molecular weight of approximately 100 kDa. It is 865 amino acids (aa) in length and shares 43% aa identity with mouse L1TD1. L1TD1 is a marker for undifferentiated pluripotent stem cells. Knock down of its expression in these cells has been shown to decrease the expression of critical pluripotency factors such as Nanog and Oct-3/4. L1TD1 function in stem cells is likely regulated by its interaction with factors such as LIN-28 and is suggested to regulate RNA processing.