

## 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<br>Met1-Leu142<br>Accession # Q5T7N2 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm  |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                         |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                      |

## 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>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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.

## PRODUCT SPECIFIC NOTICES

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