

# Mouse Tolloid-like protein 1 (TLL1) ELISA Kit

Catalog No: #EK6514



Package Size: #EK6514-1 48T #EK6514-2 96T

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## Description

Product Name	Mouse Tolloid-like protein 1 (TLL1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ASD6; TLL;
Accession No.	Q62381
Uniprot	Q62381
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TLL1 in samples. An antibody specific for TLL1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTLL1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TLL1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TLL1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TLL1 encodes an astacin-like zinc-dependent metalloprotease and is a subfamily member of the metzincin family. A similar protein in mice is required during heart development and specifically processes procollagen C-propeptides and chordin at similar cleavage sites. As previously demonstrated for BMP1 and TLD, TLL1 specifically processes procollagen C-propeptides at the physiologically relevant site, whereas TLL2 lacks this activity. BMP1 and TLL1 cleave chordin, at sites similar to procollagen C-propeptide cleavage sites, and counteract dorsaling effects of chordin upon overexpression on Xenopus embryos. Proteases TLD and TLL2 do not cleave chordin.TLL1 gene plays multiple roles in formation of the mammalian heart and is essential for formation of the interventricular septum.

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Note: This product is for in vitro research use only