

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human THSD1 Isoform 2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse THSD1 is observed.                                                                                                            |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human THSD1 Isoform 2<br>Glu25-Ile361<br>Accession # Q9NS62                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

THSD1 (thrombospondin type 1 domain-containing protein 1; also TMTSP) is a 90-100 kDa type I transmembrane protein that is reminiscent of Unc5h proteins. It is expressed on embryonic endothelial and hematopoietic stem cells and may be involved in cell-cell interactions. Mature human THSD1 is 827 amino acids (aa) in length. It contains a 388 aa extracellular domain (ECD) (aa 25-412) and a 418 aa cytoplasmic region (aa 434-851). The ECD possesses three Ig-like domains (aa 156-316) and one TSP type-1 domain (aa 340-393). There is one potential alternate start site at Met380 and two splice variants, one of which shows a deletion of aa 341-393 and a second that shows a 36 aa substitution for aa 394-851, generating a soluble form. Over aa 25-361, human THSD1 is 76% aa identical to mouse THSD1.

## PRODUCT SPECIFIC NOTICES

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