

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human THSD1.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 541213
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human THSD1 isoform 2 Glu25-Ile361 Accession # NP_954872
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HUVEC human umbilical vein endothelial cells

#### 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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 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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