

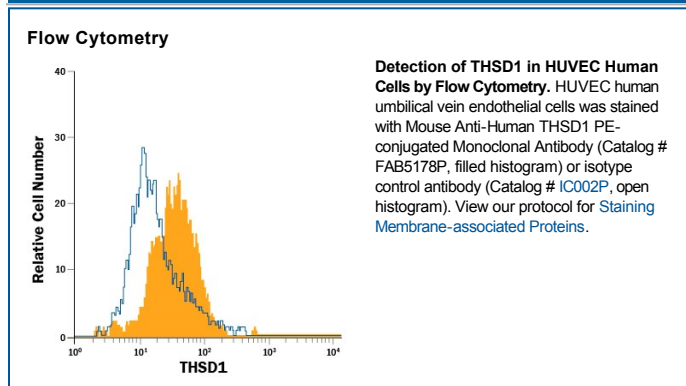
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human THSD1.
Source	Monoclonal Mouse IgG ₁ Clone # 541213
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human THSD1 isoform 2 Glu25-Ile361 Accession # NP_954872
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied 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.

	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

THSD1 (Thrombospondin type 1 Domain-containing protein 1), also known as 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 (SwissProt #: Q9NS62) contains a 389 amino acid (aa) extracellular domain (ECD) (aa 25-413) and a 418 aa cytoplasmic region (aa 435-852). The ECD possesses one TSP type-1 domain (aa 340-393). There is one potential alternate start site at Met380, and two splice variants, isoform 2 of which shows a deletion of aa 341-393 (the isoform found in NP_954872 and used here to generate this monoclonal), and isoform 3 that shows a 36 aa substitution for aa 394-857, generating a soluble form. Over aa 25-361 of isoform 2, human THSD1 is 76% aa identical to mouse THSD1.