

DESCRIPTION

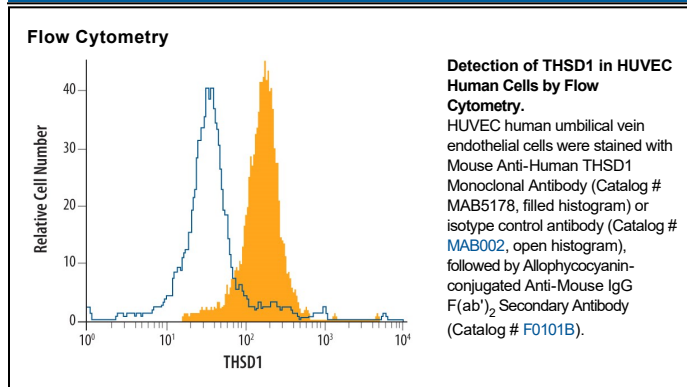
Species Reactivity	Human
Specificity	Detects human THSD1.
Source	Monoclonal Mouse IgG ₁ Clone # 541213
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human THSD1 isoform 2 Glu25-Ile361 Accession # NP_954872
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	0.25 µg/10 ⁶ cells	See Below
CytoF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.