Human THSD1 Antibody

Monoclonal Mouse IgG_1 Clone # 541213

Catalog Number: MAB5178

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TSHD1.
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 as a 0.2 μm filtered solution in PBS.

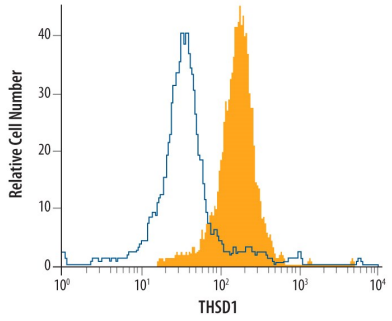
APPLICATIONS

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

Flow Cytometry



Detection of THSD1 in HUVEC Human Cells by Flow Cytometry.
HUVEC human umbilical vein endothelial cells were stained with Mouse Anti-Human THSD1 Monoclonal Antibody (Catalog # MAB5178, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0101B).

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.** ● 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.

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