TECHNICAL DATA SHEET

CyFlow™ CD253 Low Endotoxin
Anti-Hu; Clone 2E5

REF **AM151429**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD253
Alternative Names	TRAIL, Apo2L, Apo-2L, TNF-Related Apoptosis Inducing Ligand, TNFSF10
Clone	2E5
Clonality	monoclonal
Format	Low Endotoxin
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Mouse
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant soluble fragment (aa 95-281) of human TRAIL

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Specificity

The mouse monoclonal antibody 2E5 recognizes CD253 (TRAIL) antigen, a 21 kDa cytotoxic protein, activator of rapid apoptosis in tumor cells. TRAIL is mainly expressed in spleen, lung, prostate and also in many other tissues.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD253 (TRAIL; TNF-Related Apoptosis Inducing Ligand or Apo2) is a type II membrane protein from the TNF family. TRAIL is a cytotoxic protein which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apotosis, is achieved through binding to two dealth-signaling receptors, DR4 (CD261 / TRAIL-R1) and DR5 (CD262 / TRAIL-R2).

References

- Plasilova M, Zivny J, Jelinek J, Neuwirtova R, Cermak J, Necas E, Andera L, Stopka T: TRAIL (Apo2L) suppresses growth of primary human leukemia and myelodysplasia progenitors. Leukemia. 2002 Jan; 16(1):67-73. < PMID: 11840265 >
- Hyer ML, Croxton R, Krajewska M, Krajewski S, Kress CL, Lu M, Suh N, Sporn MB, Cryns VL, Zapata JM, Reed JC: Synthetic triterpenoids cooperate with tumor necrosis factor-related apoptosis-inducing ligand to induce apoptosis of breast cancer cells. Cancer Res. 2005 Jun 1; 65(11):4799-808. < PMID: 15930300 >

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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