EXBIO Antibodies

PRODUCT DATA SHEET

10-316-C100

Monoclonal Antibody to CD253 / TRAIL Azide Free (0.1 mg)

Clone: 2E5

Isotype: Mouse IgG1

Specificity: The antibody 2E5 reacts with TRAIL (APO-2L), 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.

Immunogen: Recombinant soluble fragment (aa 95-281) of human TRAIL.

Species Reactivity: Human

Negative Species: Mouse, Other not tested

Application: Functional Application
The antibody 2E5 has high neutralizing activity for human TRAIL in biological assays.
Flow Cytometry
Recommended dilution:1-10 µg/ml

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized.

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Expiration: See vial label

Lot Number: See vial label

Background: Human CD253 / TRAIL (TNF-Related Apoptosis Inducing Ligand), also called 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.
*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.

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