



Mouse Anti-Human TRAIL/TNFSF10 monoclonal antibody, clone NN14 (CABT-ZB513)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Specificity | It reacts with Human TRAIL/TNFSF10 |
| Target | TNFSF10 |
| Immunogen | Recombinant Human TNFSF10/TRAIL/APO-2L (CD253) Protein |
| Isotype | IgG |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | NN14 |
| Purification | Protein A purified |
| Conjugate | Unconjugated |
| Applications | ELISA, ELISA(cap) This antibody will detect TRAIL/TNFSF10 in antibody pair set. [ABPR-ZB089] |
| Preparation | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human TNFSF10 / TRAIL / APO-2L (CD253). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| Format | Purified, Liquid |
| Concentration | Lot specific |

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| Size | 50 µL, 100 µL, 200 µL, 1 mL |
| Buffer | PBS |
| Preservative | None |
| Storage | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| Ship | Wet ice |

BACKGROUND

Introduction Tumor necrosis factor ligand superfamily member 10 (TNFSF10), also known as TNF-related apoptosis-inducing ligand (TRAIL), Apo-2 ligand, and CD253, is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. TNFSF10/Apo-2L/CD253 functions as a ligand that induces the process of cell death called apoptosis. TNFSF10/TRAIL shows homology to other members of the tumor necrosis factor superfamily. As one member of the cluster of differentiation system, TNFSF10/CD253 is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion TNFSF10/Apo-2L/CD253/TRAIL binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of TNFSF10/TRAIL may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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| Keywords | TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; TL2; APO2L |
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GENE INFORMATION

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| Synonyms | TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; TL2; APO2L; CD253; TRAIL; Apo-2L; tumor necrosis factor ligand superfamily member 10; Apo-2 ligand; TNF-related apoptosis inducing ligand TRAIL |
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| Entrez Gene ID | 8743 |
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