

## Anti-Human CD253 (TRAIL) PE

Catalog Number :25611-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** RIK-2

**Format/Conjugate:** PE

**Concentration:** 5 $\mu$ L (0.06 $\mu$ g)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution,  $\leq$ 0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The RIK-2 monoclonal antibody recognizes human CD253, otherwise known as the TNF-related apoptosis inducing ligand (TRAIL) or tumor necrosis factor (ligand) superfamily member 10 (TNFSF10). TRAIL is a cytotoxic protein, which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apoptosis is achieved through binding to two death-signaling receptors, DR4 and DR5. These receptors belong to the TNFR superfamily of transmembrane proteins, and contain a cytoplasmic "death domain", which activates the cell's apoptotic machinery. The RIK-2 antibody is reported to block cellular apoptosis induced by TRAIL.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ L.

### References

1. Kayagaki, N., Yamaguchi, N., Nakayama, M., Kawasaki, A., Akiba, H., Okumura, K., Yagita, H. (1999). Involvement of TNF-related apoptosis-inducing ligand in human CD4+ T cell-mediated cytotoxicity.; *The Journal of Immunology*,;162(5), 2639-2647.
2. Pitti, R. M., Marsters, S. A., Ruppert, S., Donahue, C. J., Moore, A., Ashkenazi, A. (1996). Induction of apoptosis by Apo-2 ligand, a new member of the tumor necrosis factor cytokine family.; *Journal of Biological Chemistry*,271(22), 12687-12690.
3. Kaplan, M. J., Ray, D., Mo, R. R., Yung, R. L., Richardson, B. C. (2000). TRAIL (Apo2 ligand) and TWEAK (Apo3 ligand) mediate CD4+ T cell killing of antigen-presenting macrophages.; *The Journal of Immunology*,;164(6), 2897-2904.