



1F-403-C100

Monoclonal Antibody to CD261 / TRAIL-R1 Fluorescein (FITC) conjugated (0.1 mg)

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| Clone: | DR-4-02 |
| Isotype: | Mouse IgG1 |
| Specificity: | The antibody DR-4-02 recognizes TRAIL-R1 (DR4), a human death receptor 4 (468 amino acids) expressed in most human tissues (spleen, peripheral blood leucocytes, thymus) and in a variety of tumour-derived cell lines. |
| Regulatory Status: | RUO |
| Immunogen: | Fusion protein containing the extracellular part of TRAIL-R1 and the constant part of the heavy chain of the human IgG1. |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Concentration: | 0.1 mg/ml |
| Storage Buffer: | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis. Suggested working dilution is 5 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified and termed TRAIL, which is a member of the TNF family. DR4, as many other receptors (Fas, TNFR1, etc.), mediates apoptosis and NF kappaB activation in many cells and tissues. Apoptosis, a programmed cell death, is a operating process in normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by coupled of certain cytokines (TNF family - TNF, Fas ligand) and their death domain containing receptors (TNFR1, Fas receptor). |
| References: | *Corallini F, Milani D, Nicolin V, Secchiero P: TRAIL, caspases and maturation of normal and leukemic myeloid precursors. <i>Leuk Lymphoma</i> . 2006 Aug;47(8):1459-68. *Simova S, Klima M, Cermak L, Sourkova V, Andera L: Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane. <i>Apoptosis</i> . 2008 Mar;13(3):423-36. |

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