



11-403-C025

Monoclonal Antibody to CD261 / TRAIL-R1 Purified Antibody (0.025 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 |
| Application: | Flow Cytometry Recommended dilution: 3-5 µg/ml Immunoprecipitation Immunocytochemistry Functional Application Soluble antibody DR-4-02 blocks apoptosis triggered by a ligand (TRAIL). Plastic-immobilized (cross-linked) DR-4-02 antibody induces apoptosis in sensitive cells. Recommended dilution of antibody: 2-3 µg/ml in cultivation medium Final concentration of TRAIL: 20-200 ng/ml Application note: It is recommended to add the antibody 15 min before addition of TRAIL. |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified by protein-A affinity chromatography |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |
| 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). |

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Antibodies

- References:**
- *Corallini F, Milani D, Nicolini V, Secchiero P: TRAIL, caspases and maturation of normal and leukemic myeloid precursors. *Leuk Lymphoma*. 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. *Apoptosis*. 2008 Mar;13(3):423-36.

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