



Human TNFSF10 (DAG346)

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

PRODUCT INFORMATION

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| Antigen Description | In the field of cellbiology, TNF-related apoptosis-inducing ligand (TRAIL), is a proteinfunctioning as a ligand that induces the process of cell death calledapoptosis. TRAIL has also been designated CD253 (cluster of differentiation253). |
| Species | Human |
| Conjugate | Unconjugated |
| Applications | Biological activity as determined by the ability to induceapoptotic cell death in TRAIL-sensitive U343MG cells: the expected ED50for this effect is 1.0-3.0ng/ml. Each laboratory should determine an optimumworking titer for use in its particular applicatio |
| Format | Purified, Lyophilized. We recommend a quick spin followed byreconstitution in water to a concentration of 0.5-1.0 mg/ml. This solution canthen be diluted into other aqueou buffers and stored at 2-8°C (up to oneweek) or -20°C for future use. |
| Concentration | 0.3 mg/ml(prior to lyophilization) |
| Buffer | Lyophilizedfrom 10mM Sodium phosphate, pH 7.0 containing 110mM Sodium Chloride |
| Preservative | None |
| Storage | 2-8°C short term, -20°C long term |

BACKGROUND

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| Introduction | The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, |
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TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein 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. [provided by RefSeq, Jul 2010]

Keywords

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; tumor necrosis factor (ligand) family, member
