

Product datasheet for **PM1214P**

TRAIL (TNFSF10) Mouse Monoclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA, FN, IHC, WB |
| Recommended Dilution: | Sadwich ELISA: In a Sandwich ELISA (assuming 100 µl/well), a concentration of 2.0-4.0 µg/ml of this antibody will detect at least 500 pg/well of recombinant Human TRAIL/APO-II when used with Biotin conjugated anti-Human TRAIL/APO-II (cat. PP1084B) as the detection antibody at a concentration of ~1.0-2.0 µg/ml. Western Blot: To detect Human TRAIL/Apo2L by Western Blot analysis this antibody can be used at a concentration of 0.25-0.50 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human TRAIL/Apo2L is 0.25-1.0 ng/lane, under reducing or non-reducing conditions. Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of Human TRAIL/Apo2L (10.0 ng/ml), a concentration of 0.30-0.60 µg/ml of this antibody is required. Immunohistochemistry on Paraffin Sections: This antibody stained formalin-fixed, paraffin-embedded sections of human renal cell carcinoma. The recommended concentration is 2.5 µg/ml-1.5 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 9.0 buffer is recommended. Optimal concentrations and conditions may vary. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | E.coli-derived 19.6 kDa Recombinant Human sTRAIL/APO-II (Cat.-No PA135) |
| Specificity: | Recognises Human TRAIL/APO-II. Other species not tested. |
| Formulation: | PBS without preservatives. State: Azide Free State: Lyophilized (sterile filtered) purified Ig fraction. |
| Reconstitution Method: | Restore in sterile water to a concentration of 1.0 mg/ml. |
| Concentration: | 1.0 mg/ml |



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| Purification: | Affinity Chromatography on Protein A |
| Conjugation: | Unconjugated |
| Storage: | Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | tumor necrosis factor superfamily member 10 |
| Database Link: | Entrez Gene 8743 Human P50591 |
| Background: | Apoptosis or programmed cell death is induced in cells by a group of death domain containing receptors. Binding of ligand to these receptors sends signals that activate members of the caspase family of proteases. The signals ultimately cause degradation of chromosomal DNA by activating DNase. TRAIL (TNF related apoptosis induced ligand) or Apo 2L initiates apoptosis of tumor cells by binding to either of its receptors, DR4 or DR5. These receptors consist of an extracellular TRAIL binding domain and a cytoplasmic "death domain". In addition, two decoy receptors for TRAIL have also been identified. These receptors, designated DcR1 and DcR2, lack the death domain. Binding of TRAIL to either of these receptors, therefore, does not transmit the death signal. Thus, these receptors represent a novel way of regulating cell sensitivity to a pro-apoptotic cytokine at the cell surface. TRAIL is expressed predominantly in spleen, lung, and prostate but also in many other tissues. |
| Synonyms: | Apo-2 ligand, TNFSF10, APO2L, Apo-2L |