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Mouse Anti-Human TGF-^β Monoclonal Antibody Datasheet

Product Name: mAb anti-Human TGF-β

Clone No.: 8C4

Catalogue No.: MO-C40009F

Quantity: 0.5 mg/vial

| Description: | Mouse monoclonal antibody to human | | peptide (LAP). This small complex binds to |
|---|---|---------------|--|
| • • • • | Transforming Growth Factor beta (TGF- β) | | latent TGF- β binding protein (LTBP) to be |
| | - | | secreted to extra-cellular matrix. |
| Purification: | Protein G affinity purified | | Disassociation of the latent proteins from TGF- |
| Droduct Turou | Drimany antihody | | $\boldsymbol{\beta}$ results in the release of the cytokine to its |
| Product Type: | Primary antibody | | receptor. The process is called activation, |
| Target Protein: | Human TGF-β | | which can be influenced by various factors, |
| 0 | | | including proteases, metalloproteases, |
| Immunogen: | TGF- β from human platelets | | extreme pH, mild acidic condition, reactive |
| | | | oxygen species and integrins. |
| Fusion | Sp2/0-Ag14 | | TGF- β is an anti-proliferation factor in normal |
| Myeloma: | | | cells. It increases the synthesis of p15 and p21, |
| Specificity: | Western blotting demonstrated that this | | which can block the cyclin: CDK complex, and |
| Specificity. | antibody reacts with the dimeric (25 kDa) and | | causes cells to stop at G1 phase. The cytokine |
| | monomeric (12.5 kDa.) forms of TGF- β under | | can induce apoptosis through both SMAD and |
| | both non-reducing and reducing conditions | | DAXX pathways. In cancer cells, TGF- β |
| | respectively. This antibody recognizes both | | signaling is altered and TGF-β no longer stops |
| | human platelet-derived and recombinant TGF- | | cell proliferation. |
| | β in ELISA. | | |
| | | Applications: | ELISA: The antibody reacts with TGF- β . |
| Species | Human, others not tested | | |
| Reactivity: | | | IHC: Can be used in immunohistochemcal |
| Host / Isotype: | Mouse, IgG1 Kappa | | applications. |
| Host / isotype. | Mouse, igor Kappa | | Neutralizing: This antibody neutralizes TGF- β |
| Formulation: | Lyophilized in 0.01M PBS, pH 7.0. | | activity <i>in vitro</i> and <i>in vivo</i> . In an inhibition |
| | | | assay of CCL/64 cell growth and in a NRK-49F |
| Reconstitution: | Double distilled water is recommended and to | | colony forming assay, the antibody neutralized |
| | adjust the final concentration to 1.00mg/mL. | | TGF- β bioactivities. The effect of micro- |
| Storage: | Store at -20°C | | injection of this antibody into one blastomere |
| Storage: | Store at -20 C | | of two cell stage Xenopus embryos indicated |
| Research | Growth Factors and Their Receptors, | | that it was also able to neutralize the |
| Area: | Angiogenesis | | bioactivity of TGF- β <i>in vivo</i> . |
| | | References: | If research is published using this product |
| Background: | Transforming growth factor beta (TGF- β) has | References: | If research is published using this product, please inform Anogen in order to cite the |
| | three isoforms (TGF-β1, TGF-β2, and TGF-β3) | | reference on this datasheet. Anogen will |
| | with similar functions. | | provide one unit of product in the same |
| | The cytokine is a homodimer linked by | | category as gratitude. |
| | disulfide bind. Inside cells, the cytokine forms | | |
| | a small latent complex with latent associated | | |
| This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administrated to human and | | | |
| animals for use in diagnostic and therapeutic procedures. | | | |
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