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Mouse anti-Human TGF- β Monoclonal Antibody [TB21] Datasheet

Catalogue No	MO-C40009A
Product name	Mouse anti-human TGF- β monoclonal antibody [TB21]
Clone No	TB21
Product type	Primary antibodies
Description	Mouse monoclonal antibody to human Transforming Growth Factor beta (TGF- β), Protein G affinity purified
Target protein	Human TGF- β
Immunogen	TGF- β from human platelets
Specificity	Western blotting demonstrated that this antibody reacts with the dimeric (25 kDa) and monomeric (12.5 kDa.) forms of TGF-beta under both non-reducing and reducing conditions respectively. This antibody recognizes both human platelet-derived and recombinant TGF-beta in ELISA.
Reactivity	Human, others not tested
Clonality	Monoclonal
Source	Mouse
Myeloma	Sp2/0-Ag14
Subclass	IgG1
Light Chain	Kappa
Formulation	Lyophilized from a solution in 0.01M PBS, pH 7.0
Reconstitution	Double distilled water is recommended to adjust the final concentration to 1.00 mg/ml
Applications	Western blotting, ELISA, neutralizing, and Immunohistochemistry (IHC): Formalin-fixed paraffin-embedded sections, frozen sections, i.e., ovine ovarian tissue, breast cancer sections. Neutralizing: This antibody neutralizes TGF-beta activity in vitro, in an inhibition assay of CCL/64 cell growth and neutralizes the growth promoting action of TGF-beta in the NRK-49F colony forming assay. The effect of micro-injection of this antibody into one blastomere of two cell stage Xenopus embryos indicated that it was able to neutralize effectively the bioactivity of TGF-beta in vivo. IHC: This antibody has been used to demonstrate TGF-beta in ovine ovarian tissue and human breast carcinoma at a dilution of 1:1000. As a consequence of the intense staining of the erythrocytes it is possible to locate a single cell within the ovarian stroma making it useful in locating very fine capillary networks within tissue. Western Blotting: This antibody when used at an antibody concentration of 5--20 ng/mL will allow visualization of 100 ng/lane of TGF-beta.
Research	Growth Factors, Hormones and their Receptors, Angiogenesis
Storage	Store at -20 ^o C
References	Crawford, S. E. Thrombospondin-1 is a Major Activator of TGF-beta1 In Vivo. Cell 93:1159-1170 (1998) Biological Characterization of A Monoclonal Antibody TB21 Against Human Transforming Growth Factor-Beta 1. Aeta Biologica Experimentalis Sinica Vol. 26, No. 2 June (1993) If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide any product of choice as gratitude.

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