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**Antibody to Transforming Growth Factor-beta
MOUSE MONOCLONAL**

Catalog Number: AB-548
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgG1
Clone: hTGF-b
Immunogen: r.Human TGF-b

Background:

Transforming growth factor betas (TGFBetas) mediate many cell-cell interactions that occur during embryonic development. Three TGFBetas have been identified in mammals. TGFBeta1, TGFBeta2 and TGFBeta3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule. This antibody reacts with the precursor and mature form of TGFBeta2 and to a lesser extent TGFBeta3, but does not cross react with TGFBeta1.

Specificity and Preparation:

Mouse anti-human transforming growth factor-beta (TGF-b) is purified by ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for direct ELISA and will bind very well to protein A in a buffer (PBS) containing high salt concentration (3M NaCl). Titer: by direct ELISA, 1:10,000 dilution will yield 0.7 O.D using alkaline phosphatase goat anti-mouse Ig (Jackson Laboratories). Reconstitute with 0.5 ml H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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