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| <b>Cat. No:</b>          | MABN87796                                    |
| <b>Conjugate:</b>        | Unconjugated                                 |
| <b>Size:</b>             | 100µL  |
| <b>Clone:</b>            | Monoclonal                                   |
| <b>Concentration:</b>    | 1mg/ml                                       |
| <b>Host:</b>             | Rabbit                                       |
| <b>Isotype:</b>          | IgG  |
| <b>Immunogen:</b>        | Recombinant protein of human TGF beta 1      |
| <b>Reactivity:</b>       | Human,Mouse,Rat                              |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:200-1:500              |
| <b>Molecular Weight:</b> | Calculated MW:44 kDa; Observed MW:44, 12 kDa |
| <b>Purification:</b>     | Affinity Purification                        |
| <b>Synonyms:</b>         | CED; LAP; DPD1; TGFB; TGFbeta                |

**Background:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Aug 2016]

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| <b>Form:</b>    | Liquid  |
| <b>Buffer:</b>  | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt. |
| <b>Storage:</b> | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.  |

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