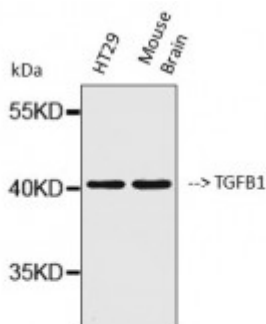


## Anti-TG beta antibody



Western Blot (WB) analysis of HT29 and mouse brain cells using TGFβ1 antibody (STJ95997).

### Description

TGF-beta 1 is a protein encoded by the TGFB1 gene which is approximately 44,3 kDa. TGF-beta 1 is secreted into the extracellular space and matrix and is involved in apoptotic pathways in synovial fibroblasts, SMAD2/3 MH2 domain mutants in cancer, Th17 differentiation pathway, GPCR pathway and ERK signalling. This protein falls under the TGF-beta superfamily which bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. It is a multifunctional protein that controls proliferation, differentiation and other functions in many cell types. TGF-beta 1 is highly expressed in bone. Mutations in the TGFB1 gene may result in Camurati-Engelmann disease and Cystic Fibrosis, Renal Fibrosis. STJ95997 was developed from clone 5D2. It was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This mouse monoclonal antibody detects endogenous levels of TGF-beta 1.

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Model</b>            | STJ95997                                                   |
| <b>Host</b>             | Rabbit                                                     |
| <b>Reactivity</b>       | Human, Mouse, Rat                                          |
| <b>Applications</b>     | ELISA, IF, IHC, WB                                         |
| <b>Immunogen</b>        | Synthesized peptide derived from human TGFbeta1            |
| <b>Immunogen Region</b> | 310-390 aa, C-terminal                                     |
| <b>Gene ID</b>          | <a href="#">7040</a>                                       |
| <b>Gene Symbol</b>      | <a href="#">TGFB1</a>                                      |
| <b>Dilution range</b>   | WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000 |

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>         | TGFBeta1 Polyclonal Antibody detects endogenous levels of TGFbeta1 protein.                                           |
| <b>Purification</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Note</b>                | For Research Use Only (RUO).                                                                                          |
| <b>Protein Name</b>        | Transforming growth factor beta-1 TGF-beta-1 Latency-associated peptide LAP                                           |
| <b>Molecular Weight</b>    | 44 kDa                                                                                                                |
| <b>Clonality</b>           | Polyclonal                                                                                                            |
| <b>Conjugation</b>         | Unconjugated                                                                                                          |
| <b>Isotype</b>             | IgG                                                                                                                   |
| <b>Formulation</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                               |
| <b>Concentration</b>       | 1 mg/ml                                                                                                               |
| <b>Storage Instruction</b> | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                  |
| <b>Database Links</b>      | <a href="#">HGNC:11766OMIM:131300</a>                                                                                 |
| <b>Alternative Names</b>   | Transforming growth factor beta-1 TGF-beta-1 Latency-associated peptide LAP                                           |