

## Product datasheet for **AP06350PU-N**

### TGF beta 1 (TGFB1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 341-390 of Human TGFβ1.
Specificity:	This antibody detects endogenous levels of TGF beta1 protein. (region surrounding Tyr369)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~44.0 kDa
Gene Name:	transforming growth factor beta 1
Database Link:	<a href="#">Entrez Gene 7040 Human P01137</a>



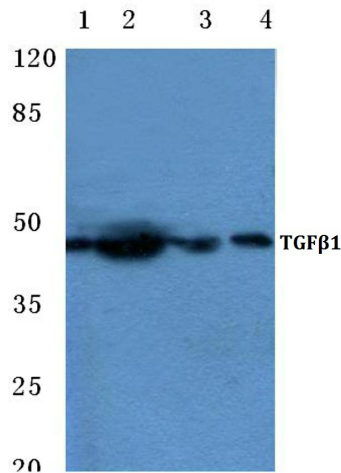
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**Background:**

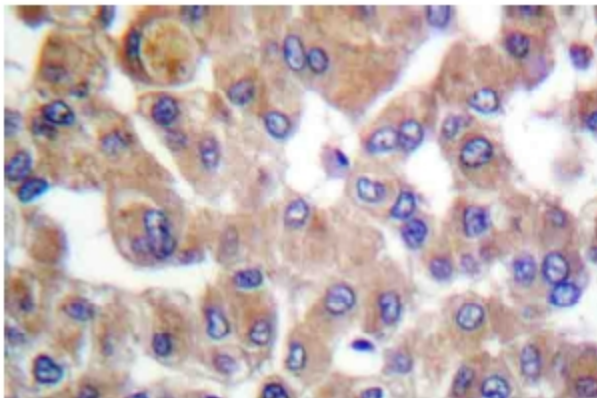
Transforming growth factor betas (TGFbetas) were originally discovered due to their ability to promote anchorage-independent growth of rat NRK fibroblasts in the presence of TGFalpha. It is now realized that TGFbetas mediate many cell-cell interactions that occur during embryonic development. Three TGFbetas 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 molecules. Biologically active TGFbeta requires dimerization of the monomers (usually homodimers) and release of the latent peptide portion. Overall, the mature region of the TGFbeta3 protein has approximately 80% identity to the mature region of both TGFbeta1 and TGFbeta2. However, the NH2 terminals or precursor regions of their molecules share only 27% sequence identity.

**Synonyms:**

TGFB, Transforming growth factor beta-1, TGF-beta-1

**Product images:**

Western blot (WB) analysis of TGFβ1 antibody at 1/500 dilution Lane 1:Hela cell lysate Lane 2:SP2/O cell lysate Lane 3:H9C2 cell lysate Lane 4:MCF-7 cell lysate



Immunohistochemistry (IHC) analyzes of TGF-beta1 antibody in paraffin-embedded human breast carcinoma tissue.