

---

**Product Name: TGFb1 Mouse Monoclonal Antibody****Catalog #: AMM81149**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA,FC
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	44.3kDa

**Antigen Information**

<b>Gene Name</b>	TGFb1
<b>Alternative Names</b>	CED; LAP; DPD1; TGFB; TGFbeta
<b>Gene ID</b>	7040.0
<b>SwissProt ID</b>	P01137
<b>Immunogen</b>	Purified recombinant fragment of human TGFb1 (AA: 62-195) expressed in E. Coli.

**Background**

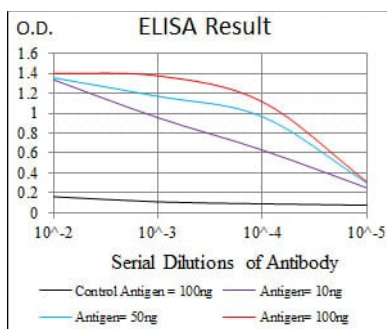
This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is

cleaved into a latency-associated peptide (LAP) and a mature TGFβ1 peptide, and is found in either a latent form composed of a TGFβ1 homodimer, a LAP homodimer, and a latent TGFβ1-binding protein, or in an active form composed of a TGFβ1 homodimer. The mature peptide may also form heterodimers with other TGFβ family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease

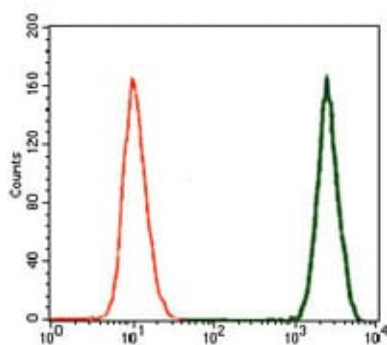
## Research Area

TGF-beta signaling pathway, MAPK signaling pathway

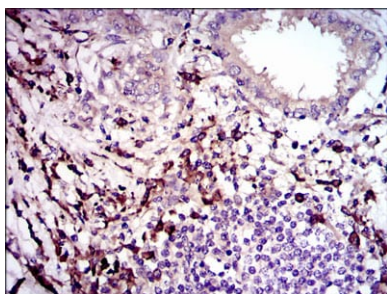
## Image Data



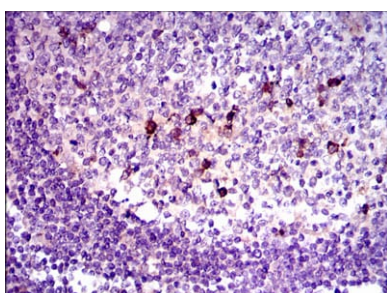
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Flow cytometric analysis of A549 cells using TGFβ1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using TGFβ1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human lymphoid tissue tissues using TGFβ1 mouse mAb with DAB staining.

