



## Rabbit Anti-TGF alpha antibody

SL0066R

<b>Product Name:</b>	TGF alpha
<b>Chinese Name:</b>	转移生长因子 $\alpha$ 抗体
<b>Alias:</b>	EGF like TGF; ETGF; TFGA; TGF A; TGF type 1; TGFA; Transforming growth factor alpha; Transforming growth factor alpha precursor; Wa1; Waved 1; TGFA_HUMAN; TGF $\alpha$ ; TGF- $\alpha$ ; TGF $\alpha$ .
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1 $\mu$ g/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	17kDa
<b>Cellular localization:</b>	The cell membraneExtracellular matrixSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TGF-alpha :40-89/160
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. Alternatively spliced transcript variants

encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011].

**Function:**

TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor/EGFR and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar (By similarity). Inhibitor of acid secretion. Inhibitor of aminopyrine uptake in parietal cells (in vitro).

**Subunit:**

Interacts with the PDZ domains of MAGI3, SDCBP and SNTA1. The interaction with SDCBP, is required for the targeting to the cell surface. In the endoplasmic reticulum, in its immature form (i.e. with a prosegment and lacking full N-glycosylation), interacts with CNIH. In the Golgi apparatus, may form a complex with CNIH and GORASP2. Interacts (via cytoplasmic C-terminal domain) with NKD2.

**Subcellular Location:**

Transforming growth factor alpha: Secreted, extracellular space. Protransforming growth factor alpha: Cell membrane; Single-pass type I membrane protein.

**Tissue Specificity:**

Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines.

**Similarity:**

Contains 1 EGF-like domain.

**SWISS:**

P01135

**Gene ID:**

7039

**Database links:**

[Entrez Gene: 403431](#)Dog

[Entrez Gene: 7039](#)Human

[Entrez Gene: 21802](#)Mouse

[Entrez Gene: 24827](#)Rat

[Omim: 190170](#)Human

[SwissProt: P01135](#)Human

[SwissProt: P48030](#)Mouse

[SwissProt: P01134](#)Rat

[Unigene: 170009](#)Human

[Unigene: 137222](#)Mouse

[Unigene: 9952](#)Rat

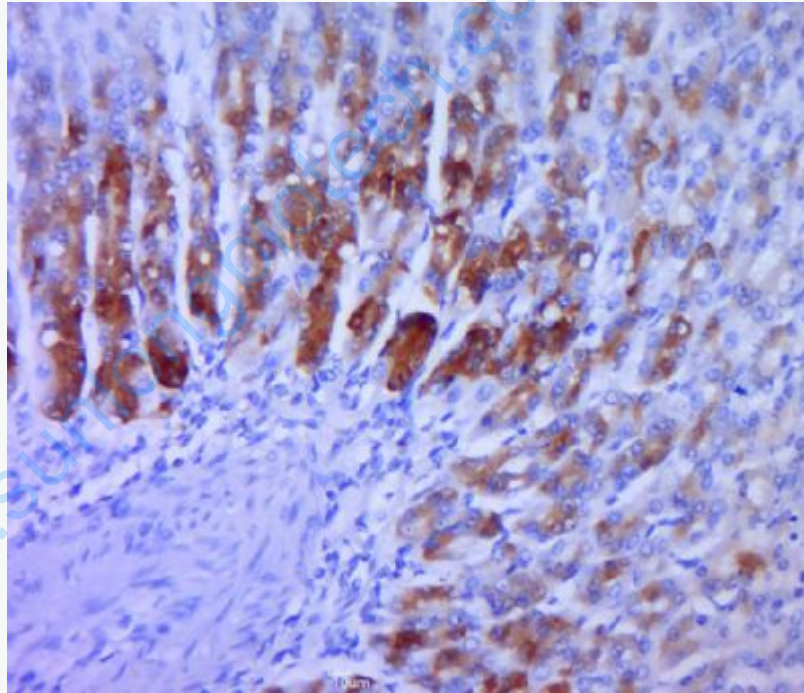
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Growth factors and hormones

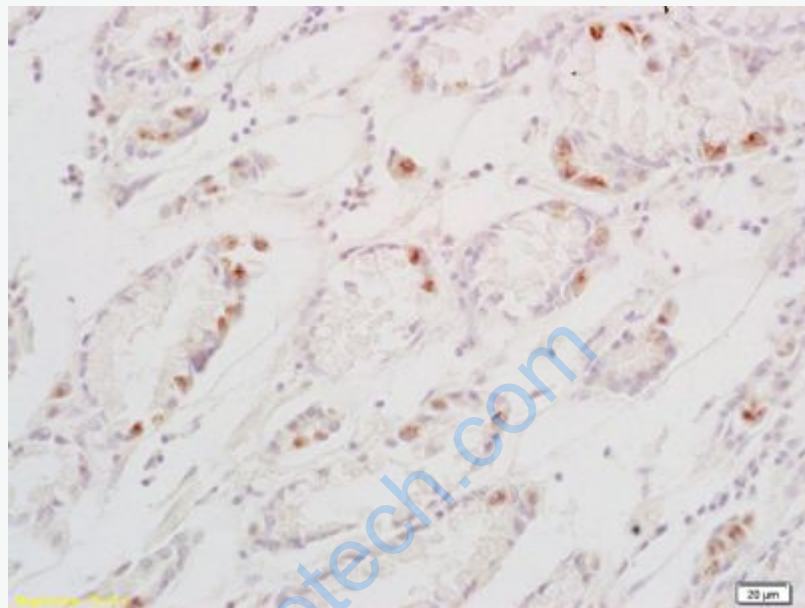
TGF $\alpha$ 是一个强有力的只有丝分裂多肽,主要由恶性Tumour产生。

**Picture:**



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TGF alpha) Polyclonal Antibody, Unconjugated (SL0066R) at 1:400 overnight at 4°C, followed by a conjugated

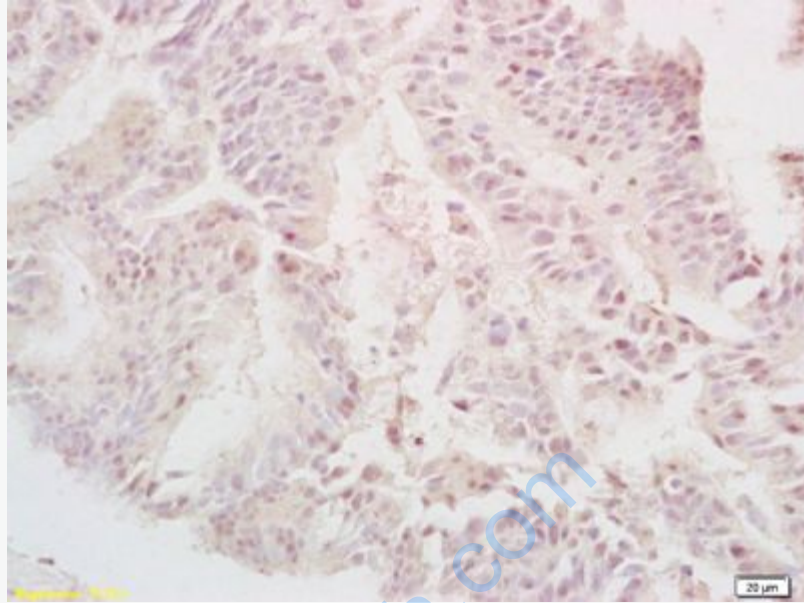
secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

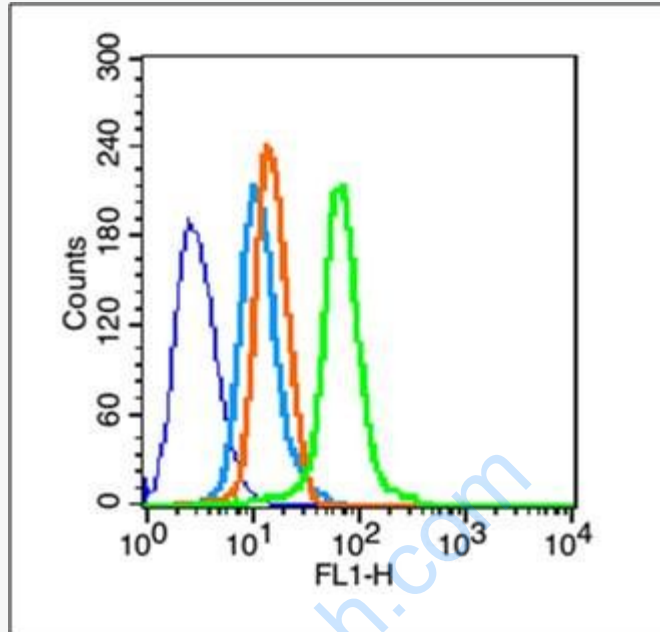
Incubation: Anti-TGF alpha Polyclonal Antibody, Unconjugated(SL0066R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-TGF alpha Polyclonal Antibody, Unconjugated(SL0066R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line): HeLa (blue).

Primary Antibody (green line): Rabbit Anti-TGF alpha antibody (SL0066R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC

Dilution:  $1\mu\text{g} / \text{test}$ .

Protocol

The cells were fixed with 70% methanol (Overnight at  $-20^\circ\text{C}$ ) and then

permeabilized with ice-cold 90% methanol for 30 min on ice. Cells stained with

Primary Antibody for 30 min at room temperature. The cells were then incubated in

1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions

followed by the antibody for 15 min at room temperature. The secondary antibody

used for 40 min at room temperature. Acquisition of 20,000 events was performed.

