

## TGFa Polyclonal Antibody

Catalog No: YT4626

**Reactivity:** Human; Mouse; Rat; Monkey

**Applications:** WB;IHC;IF;ELISA

Target: TGFA

**Fields:** >>EGFR tyrosine kinase inhibitor resistance;>>MAPK signaling

pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>PI3K-Akt

signaling pathway;>>Estrogen signaling pathway;>>Pathways in cancer;>>Colorectal cancer;>>Renal cell carcinoma;>>Pancreatic

cancer;>>Glioma;>>Prostate cancer;>>Non-small cell lung

cancer;>>Hepatocellular carcinoma

Gene Name: TGFA

**Protein Name :** Protransforming growth factor alpha

P01135

P48030

Human Gene ld: 7039

**Human Swiss Prot** 

No:

Mouse Gene ld: 21802

**Mouse Swiss Prot** 

No:

Rat Gene ld: 24827

Rat Swiss Prot No: P01134

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

TGF alpha. AA range:111-160

**Specificity:** TGFa Polyclonal Antibody detects endogenous levels of TGFa protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.



Polyclonal, Rabbit, IgG Source:

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) Storage Stability:

Observed Band: 10kD

ErbB HER;Pathways in cancer;Renal cell carcinoma;Pancreatic **Cell Pathway:** 

cancer; Glioma; Prostate cancer; Non-small cell lung cancer;

Background: 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 transmembranebound 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:** function: TGF alpha is a mitogenic polypeptide that is able to bind to the EGF

> receptor and to act synergistically with TGF beta to promote anchorageindependent cell proliferation in soft agar., similarity: Contains 1 EGF-like

domain., 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.,

Subcellular [Transforming growth factor alpha]: Secreted, extracellular space.; Location:

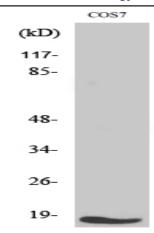
[Protransforming growth factor alpha]: Cell membrane; Single-pass type I

membrane protein.

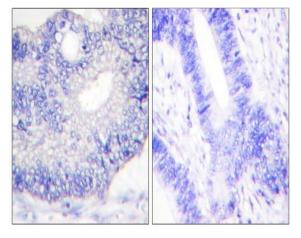
**Expression:** Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-

derived cell lines.

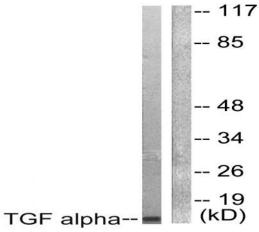
## **Products Images**



Western Blot analysis of various cells using TGF  $\!\alpha$  Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using TGF alpha Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, using TGF alpha Antibody. The lane on the right is blocked with the synthesized peptide.