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## **TGFA ELISA Kit**





#### Overview

Quantity:	96 tests
Target:	TGFA
Binding Specificity:	AA 40-89
Reactivity:	Rabbit
Method Type:	Sandwich ELISA
Application:	ELISA

## **Product Details**

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of rabbit TGF alpha
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: E.coli,V40-A89
Cross-Reactivity (Details):	There is cross-reactivity with TGF beta 2, TGF beta 3, TGF beta 5<1 %.
Characteristics:	Tissue Specificity: Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines

# **Target Details**

Target:	TGFA
Alternative Name:	TGFA (TGFA Products)

#### Target Details

Background:

Protein 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.

Background: Transforming growth factor alpha(TGF-alpha) is upregulated in some rabbit cancers. It is produced in macrophages, brain cells, and keratinocytes, and induces epithelial development. It is closely related to EGF, and can also bind to the EGF receptor with similar effects. TGFalpha stimulates neural cell proliferation in the adult injured brain. Transforming growth factor alpha gene(TGFA) maps to rabbit chromosome 2 close to the breakpoint of the t(2,8) variant translocation in Burkitt lymphoma. Synthetic TGF-alpha was as active as murine epidermal growth factor in binding to the epidermal growth factor receptor and in stimulation of anchorage-dependent and of anchorage-independent growth of normal indicator cells in culture. Synthetic TGF-alpha stimulated plasminogen activator production in A 431 and HeLa cells, the stimulation was similar to that induced by epidermal growth factor. Furthermore, synthetic rabbit TGF-alpha showed similar immunoreactivity when compared with rabbit TGF-alpha. Thus, the 50-amino acid TGF-alpha is likely to be the bioactive principle produced and secreted by tumor cell lines.

Synonyms: Protransforming growth factor alpha, Transforming growth factor alpha, TGF-alpha, EGF-like TGF, TGF type 1, TGFA,

Full Gene Name: Protransforming growth factor alpha

Cellular Localisation: Transforming growth factor alpha: Secreted, extracellular space.

UniProt:

P01135

Pre-coated

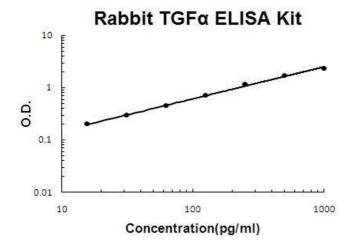
Pathways:

Plate:

NF-kappaB Signaling, RTK Signaling, EGFR Signaling Pathway

### **Application Details**

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Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months



## **ELISA**

**Image 1.** Rabbit TGF alpha PicoKine ELISA Kit standard curve