



BMA BIOMEDICALS



Peninsula Laboratories

---

## T-4550

### Rabbit anti Transforming Growth Factor- $\alpha$ (TGF- $\alpha$ ) (1-50) (rat) [UniPro: P01134]

Transforming Growth Factor-alpha (TGF- $\alpha$ ), also known as sarcoma growth factor, TGF-type I and ETGF, is a member of the EGF family of cytokines. It is expressed in monocytes, brain cells, keratinocytes and various tumor cells. TGF- $\alpha$  signals through EGFR and acts synergistically with TGF-beta to promote the proliferation of a wide range of epidermal and epithelial cells. TGF- $\alpha$  is a transforming 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. The biological actions of TGF- $\alpha$  and EGF are similar.

This antibody was generated by immunization of rabbits with TGF- $\alpha$  (1-50) coupled to a carrier protein.

---

#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A09150
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400 $\mu$ g
<b>Format:</b>	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
<b>Stability:</b>	Original vial: at least one year at 4 <sup>o</sup> - 8 <sup>o</sup> C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20 <sup>o</sup> C or below.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against TGF- $\alpha$ (1-50). Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Synthetic peptide H-Val-Val-Ser-His-Phe-Asn-Asp-Cys-Pro-Asp-Ser-His-Thr-Gln-Phe-Cys-Phe-His-Gly-Thr-Cys-Arg-Phe-Leu-Val-Gln-Glu-Asp-Lys-Pro-Ala-Cys-Val-Cys-His-Ser-Gly-Tyr-Val-Gly-Ala-Arg-Cys-Glu-His-Ala-Asp-Leu-Leu-Ala-OH coupled to a carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
TGF- $\alpha$ (1-50) (rat)	100
TGF- $\alpha$ (human)	100
TGF- $\alpha$ (34-43) (rat)	0
rec EGF	0
EGF Receptor Peptide (985-996) (human)	0
GRF (Rat)	0
$\alpha$ -MSH	0
Substance P	0

Related Products: T-4549: Rabbit anti TGF- $\alpha$  (1-50) (rt), diluted antiserum  
T-4551: Rabbit anti TGF- $\alpha$  (1-50) (rt), neat antiserum

---

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4550

rabbit IgG

1.3.2021