



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Transforming Growth Factor- α (TGF- α) (1-50)

Transforming Growth Factor-alpha (TGF- α), 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- α signals through EGFR and acts synergistically with TGF-beta to promote the proliferation of a wide range of epidermal and epithelial cells. TGF- α 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- α and EGF are similar.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4549 (Lot 980108-1)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Rat
Quantity:	1.0 ml
Format:	Diluted antiserum, lyophilized. This stock solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN ₃ , and 0.1% Triton X-100. Reconstitute by adding 1.0 ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	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 carrier protein.
Protein database:	<u>rat-P01134</u>

Cross-Reactivity:

PEPTIDE	%
TGF- α (1-50) (rat)	100
TGF- α (human)	100
TGF- α (34-43) (rat)	0
rec EGF	0
EGF Receptor (985-996) (human)	0
GRF (1-43) (rat)	0
α -MSH	0
Substance P	0

Applications:

Tested in ELISA against TGF- α (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 **bma.ch** for protocols and general information.

Related Products:

T-4550: Rabbit anti TGF- α (1-50), purified IgG, (rt)

T-4551: Rabbit anti TGF- α (1-50), neat antiserum, (rt)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.