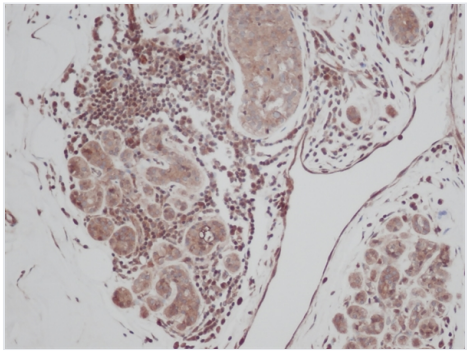
TGF ALPHA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TGF ALPHA, Polyclonal Antibody
Full Product Name	RABBIT ANTI HUMAN TGF ALPHA
Product Gene Name	anti-TGF ALPHA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Purified Purified IgG - lyophilised
Concentration	IgG concentration 1.0 mg/ml after reconstitution (lot specific)
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at -20 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.
Molecular Weight	17,329 Da
OMIM	190170
3D Structure	ModBase 3D Structure for P01135
Reconstitution	Reconstitute with 0.1 ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.
Immunogen	Recombinant human TGF alpha Buffer Solution||Phosphate buffered saline
Antiserum Preparation	Antisera to human TGF alpha were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was was prepared by antigen affinity chromatography.
Target Species	Human
Applications Tested/Suitable for anti-TGF ALPHA antibody	ELISA (EIA), Functional Assays (FN), Immunohistology Paraffin*, Western Blot (WB)
Application Notes for anti-TGF ALPHA antibody	ELISA: This purifed human TGFalpha antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with a biotinylated human TGFalpha antibody as the detection reagent and recombinant human TGFalpha as the standard. Western Blot: Rabbit anti human TGFalpha may used in Western Blotting application under either reducing or non-reducing conditions with recombinant human TGFalpha as the positive control. **ELISA:** Minimum Dilution: 0.5; Maximum Dilution: 2.0ug/ml **Functional Assays:** Minimum Dilution: 2.5; Maximum Dilution: 3.7ug/ml **Immunohistology - Paraffin:** Minimum Dilution: 0.5ug/ml; Application Note: **This product requires antigen retrieval using heat treatment prior to staining paraffin sections. Sodium citrate buffer pH6.0 is recommended for this purpose.** **Western Blotting:** Minimum Dilution: 0.1ug/ml; Maximum Dilution: 0.2ug/ml
Related Product Information for anti-TGF ALPHA antibody	Rabbit anti human TGFalpha recognizes tranforming growth factor alpha. TGFalpha is a 50 amino acid EGF-related polypeptide expressed in a range of tissues, including skin, pancreas, liver, duodenum, salivary glands, urinary and respiratory systems, and the developing and mature central nervous system (CNS). TGFalpha is produced by monocytes, keratinocytes and neuronal cells and stimulates the proliferation of a range of epidermal and epithelial cells, through binding to the epidermal growth factor receptor (EGFR). TGFalpha is mitogenic for multipotent neural progenitors and is involved in astrogliosis (Junier 2000).

Other Notes	Small volumes of anti-TGF ALPHA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TGF ALPHA purchase	MBS221555 is an antibody targeting TGF ALPHA. Also known as RABBIT ANTI HUMAN TGF ALPHA. Host: Rabbit.



Testing Data #1 of anti-TGF ALPHA antibody
Staining of formalin fixed, paraffin embedded human breast invasive ductal carcinoma with Rabbit anti Human TGF alpha (MBS221555)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TGF ALPHA. It may not necessarily be applicable to this product.

NCBI GI #	153791414
NCBI GeneID	7039
NCBI Accession #	NP_001093161.1
UniProt Primary Accession #	P01135
UniProt Secondary Accession #	Q15577; Q53SK7; Q9BS56; Q9UEI3; Q9UKM1; Q9UKM2; Q9UKM3; A8K286
UniProt Related Accession #	P01135
GenBank Nucleotide #	NM_001099691.2
NCBI Official Full Name	protransforming growth factor alpha isoform 2 preproprotein
NCBI Official Synonym Full Names	transforming growth factor, alpha
NCBI Official Symbol	TGFA
NCBI Official Synonym Symbols	TFGA
UniProt Protein Name	Protransforming growth factor alpha
UniProt Synonym Protein Names	EGF-like TGF; ETGF; TGF type 1
Protein Family	Transforming growth factor
UniProt Gene Name	TGFA
UniProt Synonym Gene Names	TGF-alpha; ETGF
UniProt Entry Name	TGFA_HUMAN
NCBI Protein Information	protransforming growth factor alpha; TGF-alpha
NCBI Summary for TGF ALPHA	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]

UniProt Comments for TGF ALPHA	TGFalpha: 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. 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. Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Ligand, receptor tyrosine kinase; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 2p13 Cellular Component: extracellular space; cell surface; integral to plasma membrane; basolateral plasma membrane; perinuclear region of cytoplasm; plasma membrane; cytoplasmic vesicle; nucleus Molecular Function: protein binding; growth factor activity; glycoprotein binding; epidermal growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; response to drug; cell proliferation; wound healing; positive regulation of epidermal growth factor receptor activity; positive regulation of mitosis; activation of MAPK activity; angiogenesis; positive regulation of epithelial cell proliferation; negative regulation of apoptosis
Research Articles on TGF ALPHA	**1.** TGFA Taq I polymorphism may be associated with the risk of cleft lip and/or palate.
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